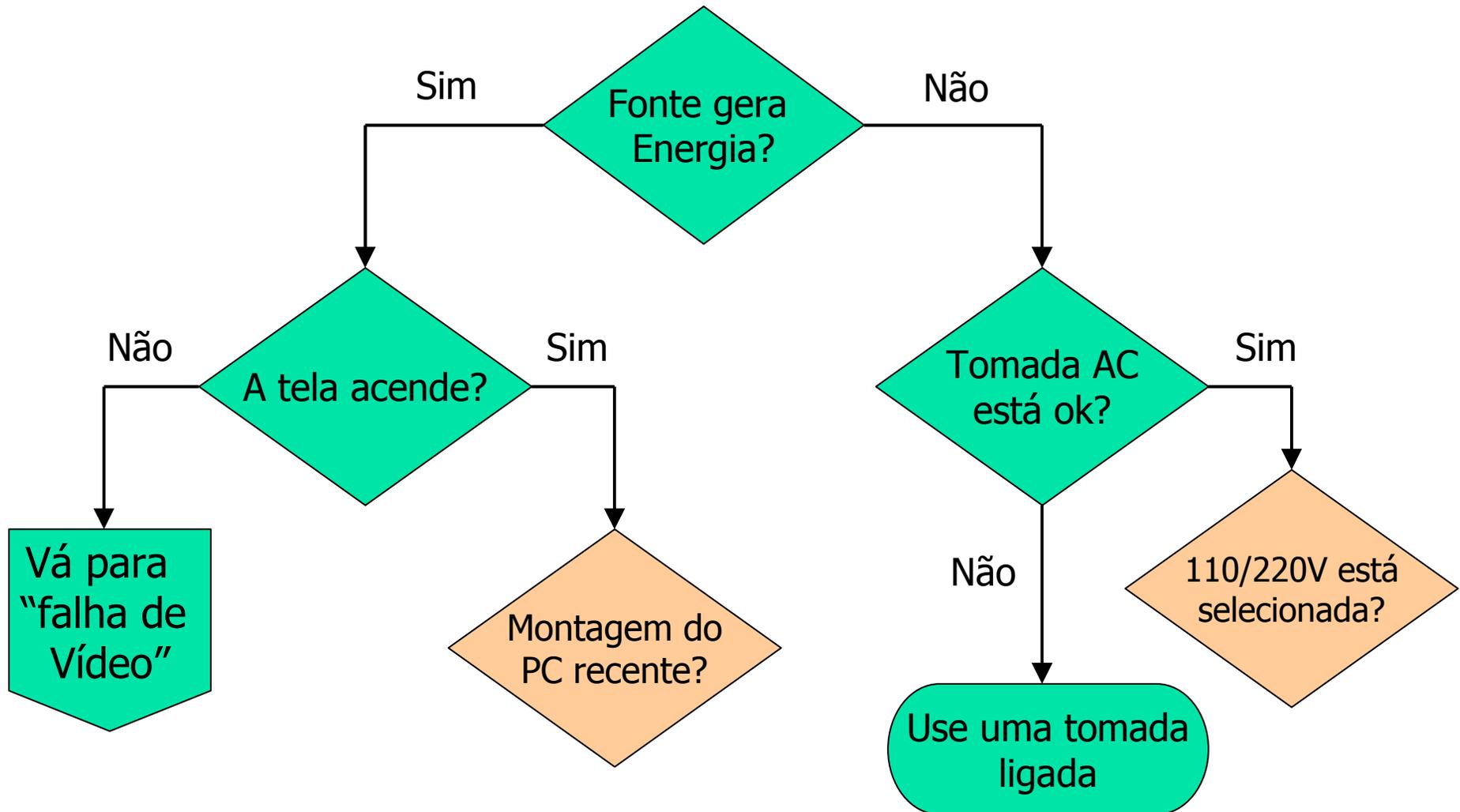
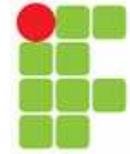


# Manutenção de Hardware

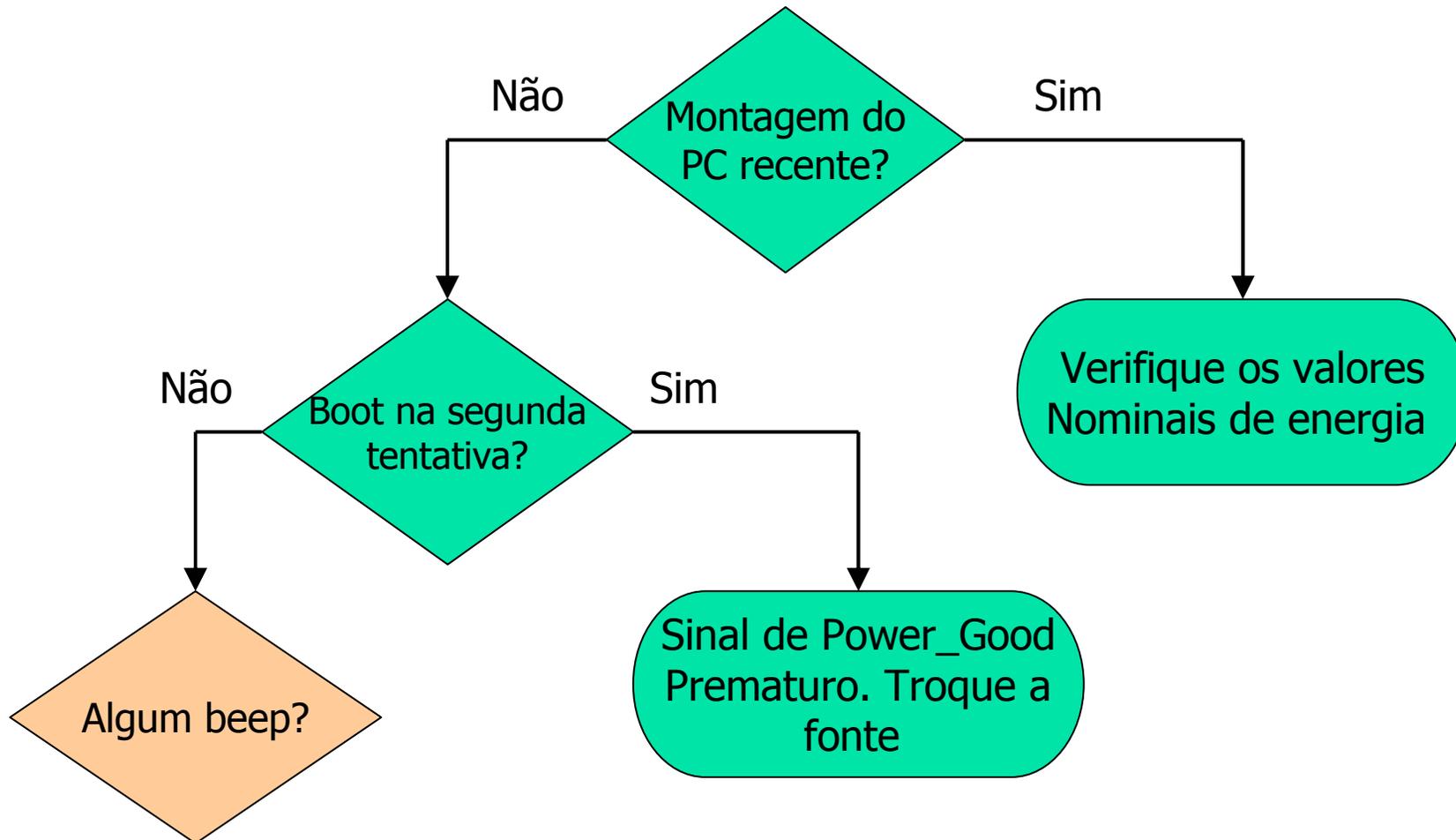


Christian César de Azevedo

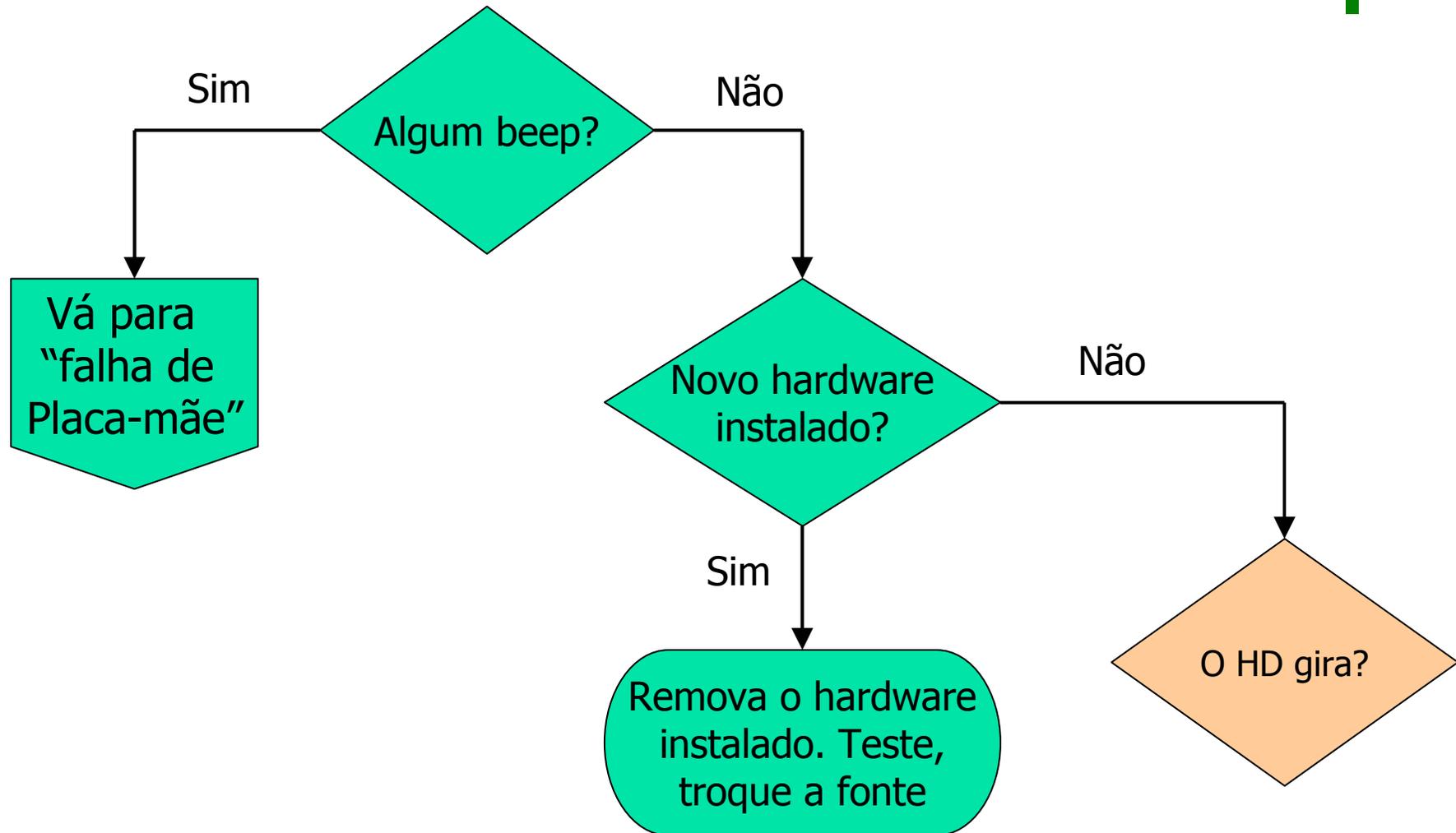
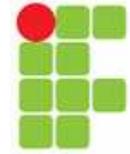
# Defeito na fonte



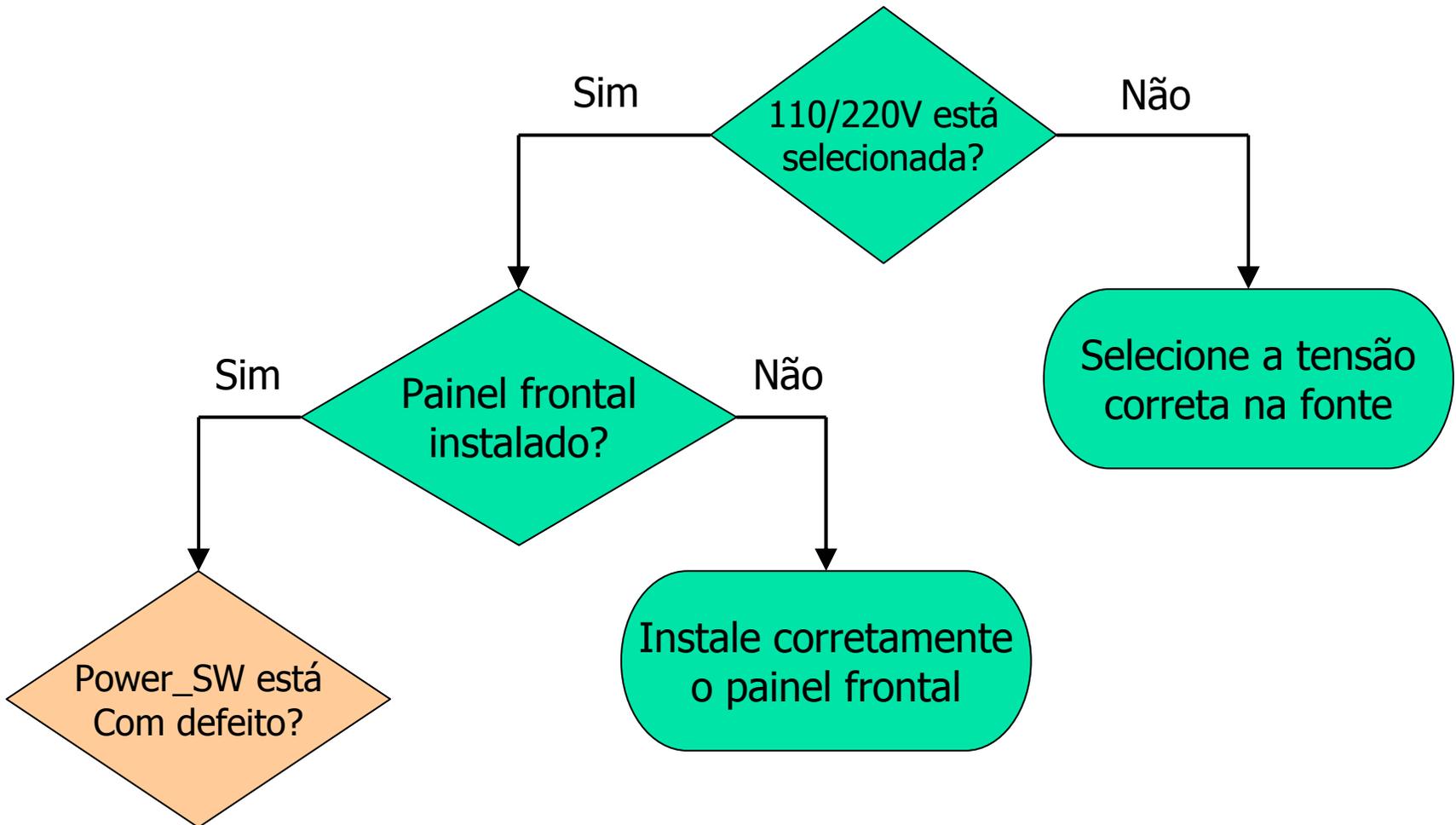
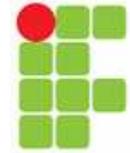
# Defeito na fonte



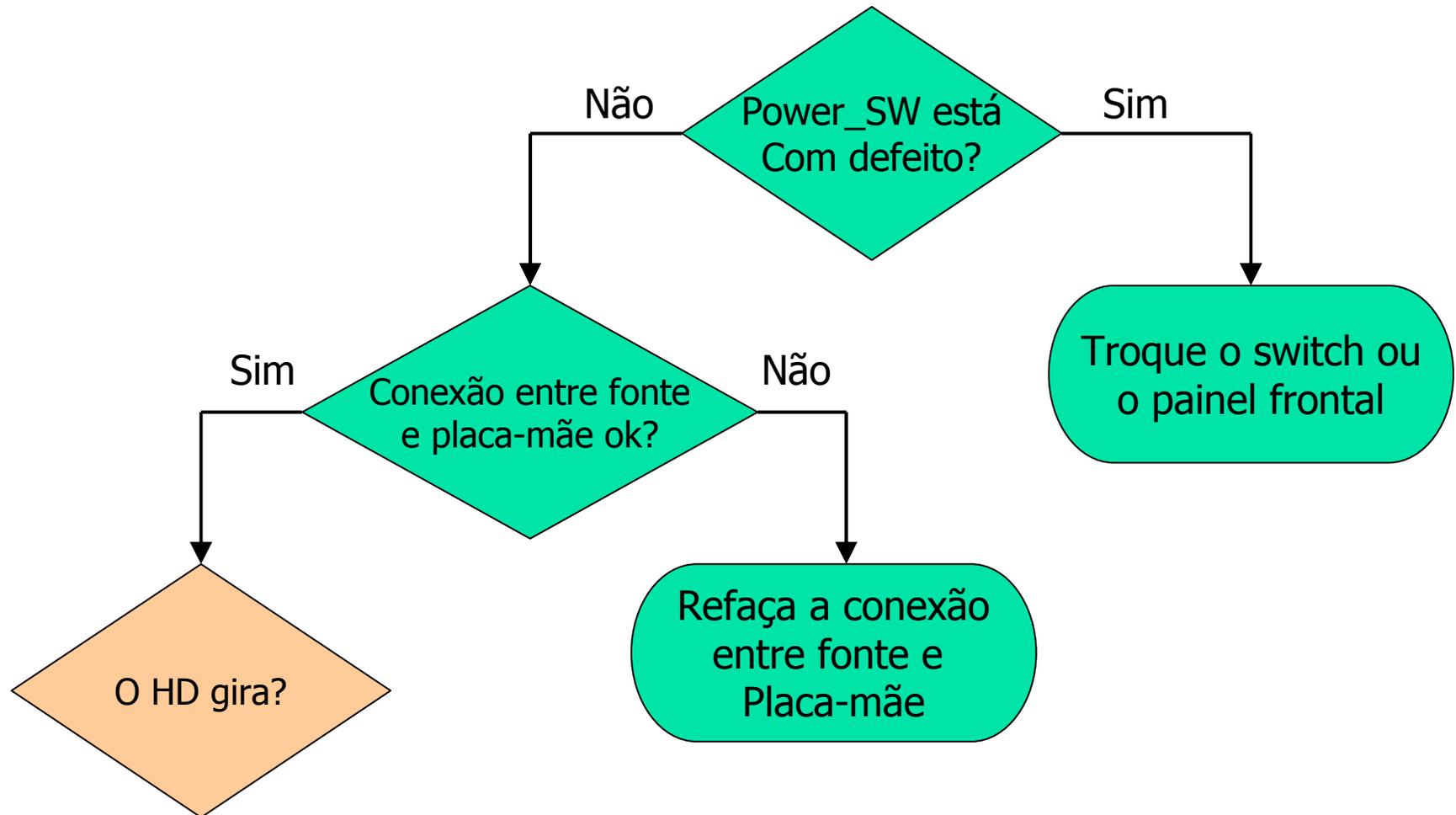
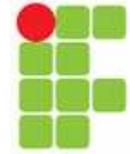
# Defeito na fonte



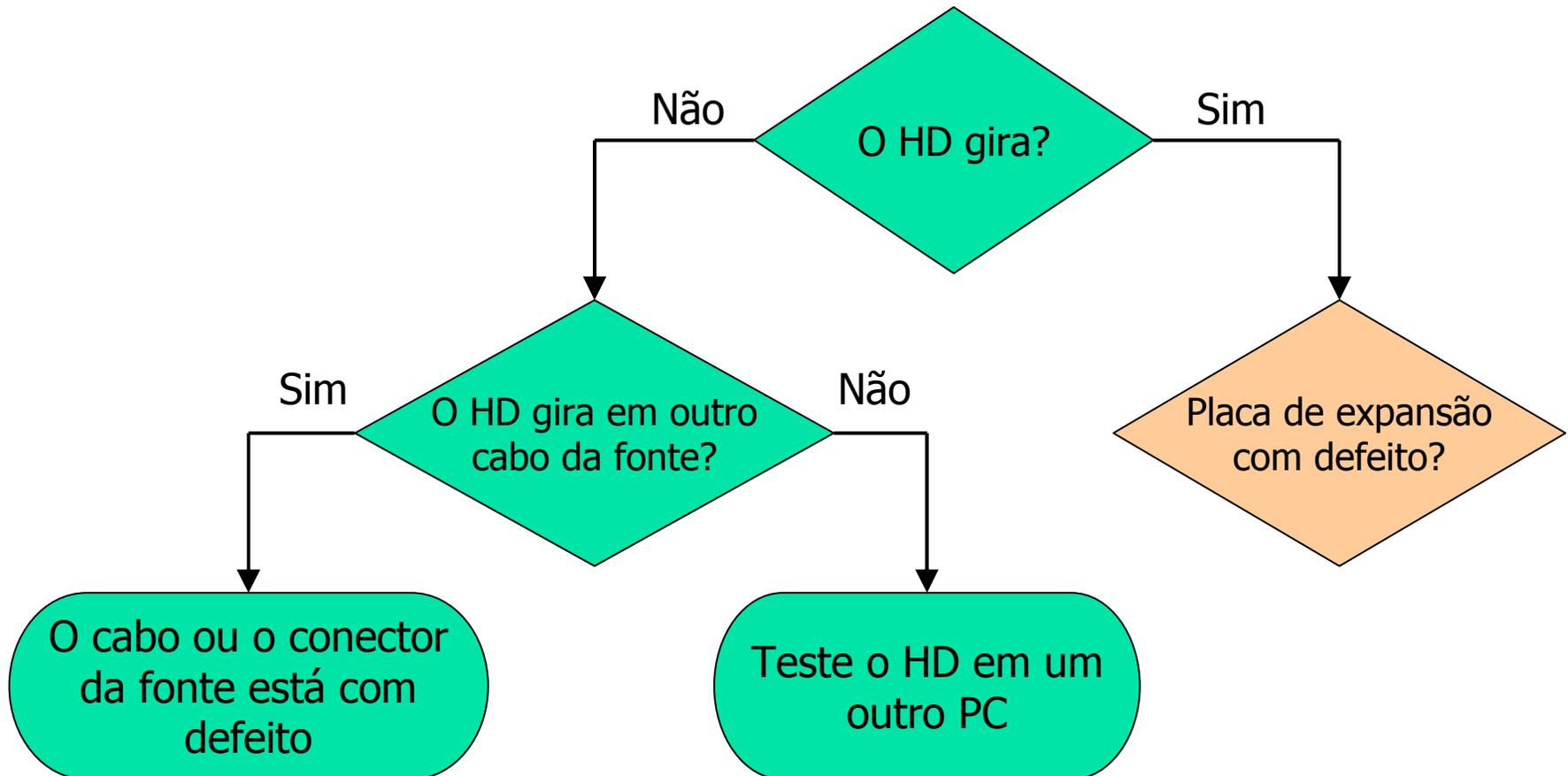
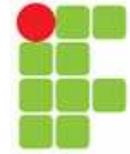
# Defeito na fonte



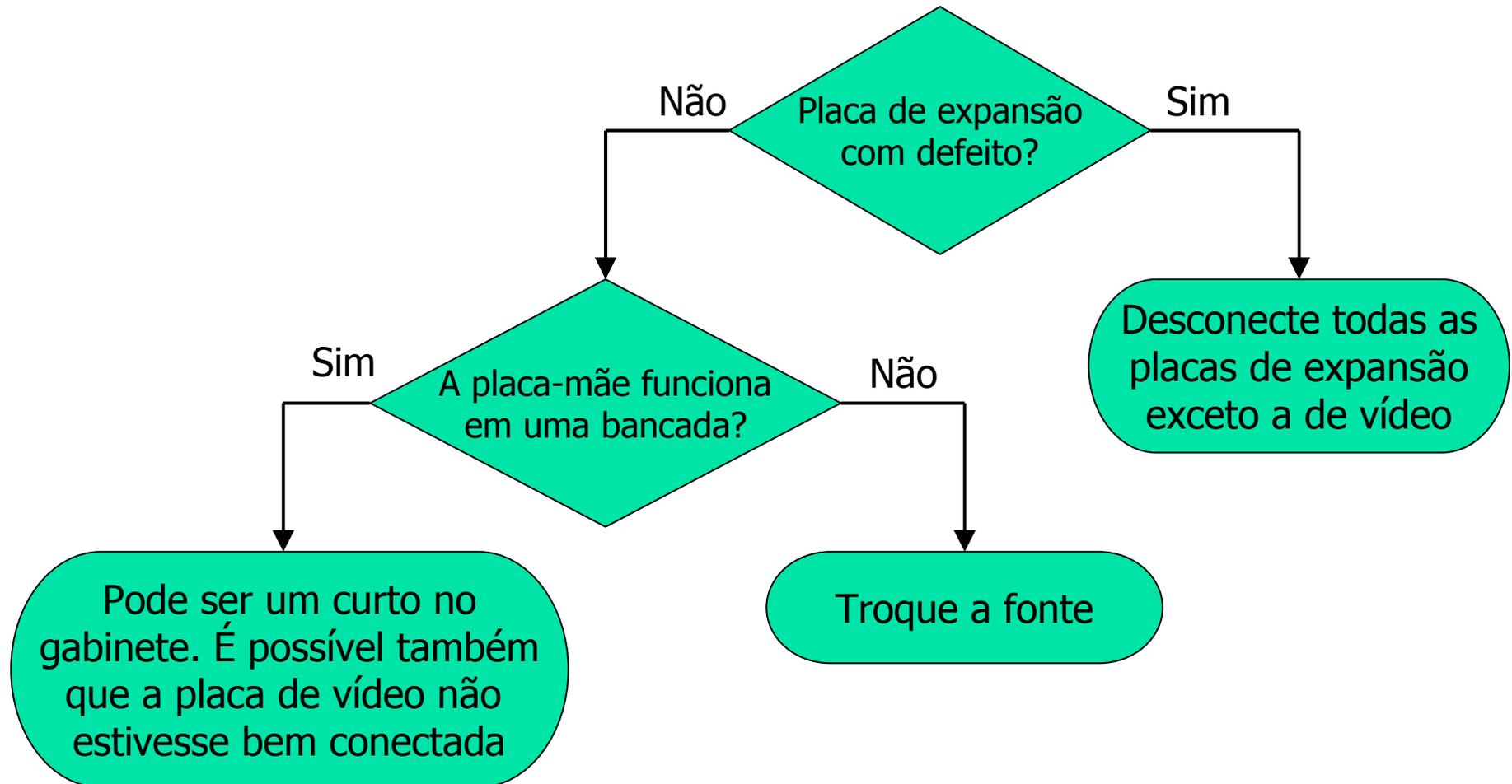
# Defeito na fonte



# Defeito na fonte



# Defeito na fonte

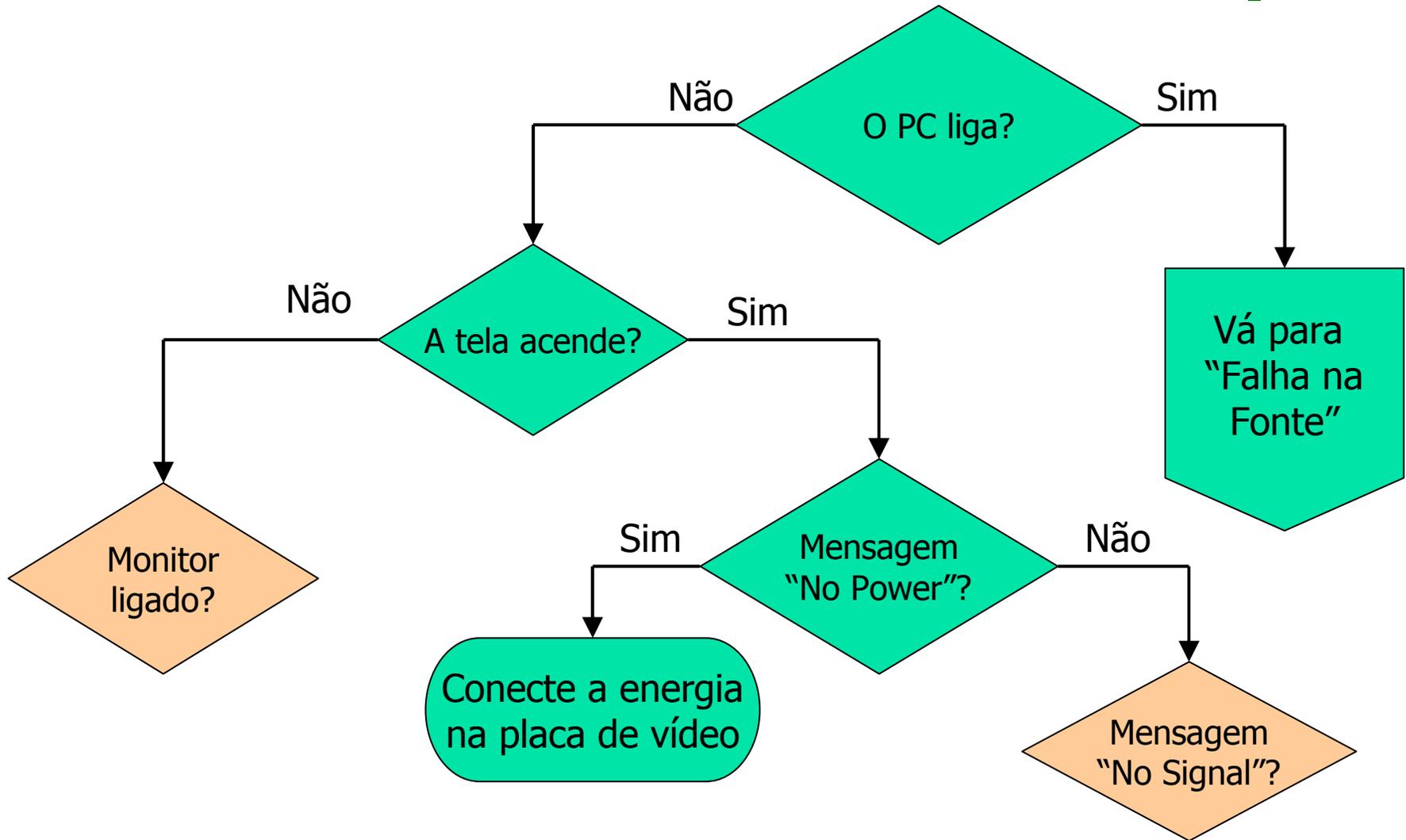
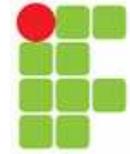


# Defeito na fonte

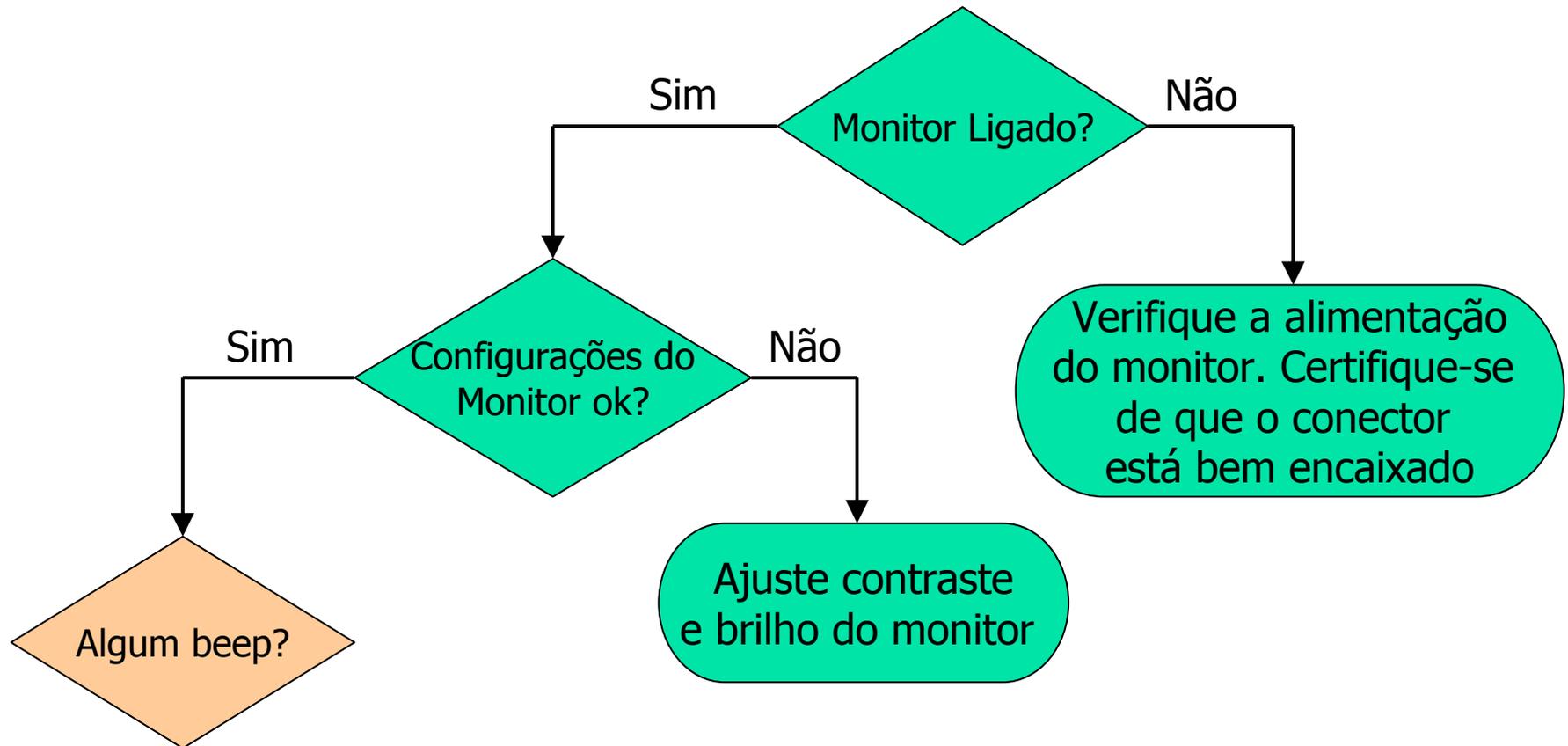
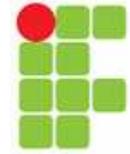


- Se o PW\_ON estiver com defeito, experimente trocá-lo pelo botão de RESET.
- Ao adicionar placas de vídeo off-board, tome cuidado com os valores nominais da fonte. Algumas placas de vídeo chegam a consumir 600W.
- Se o boot acontece apenas na segunda tentativa, é melhor trocar a fonte por uma de qualidade superior.

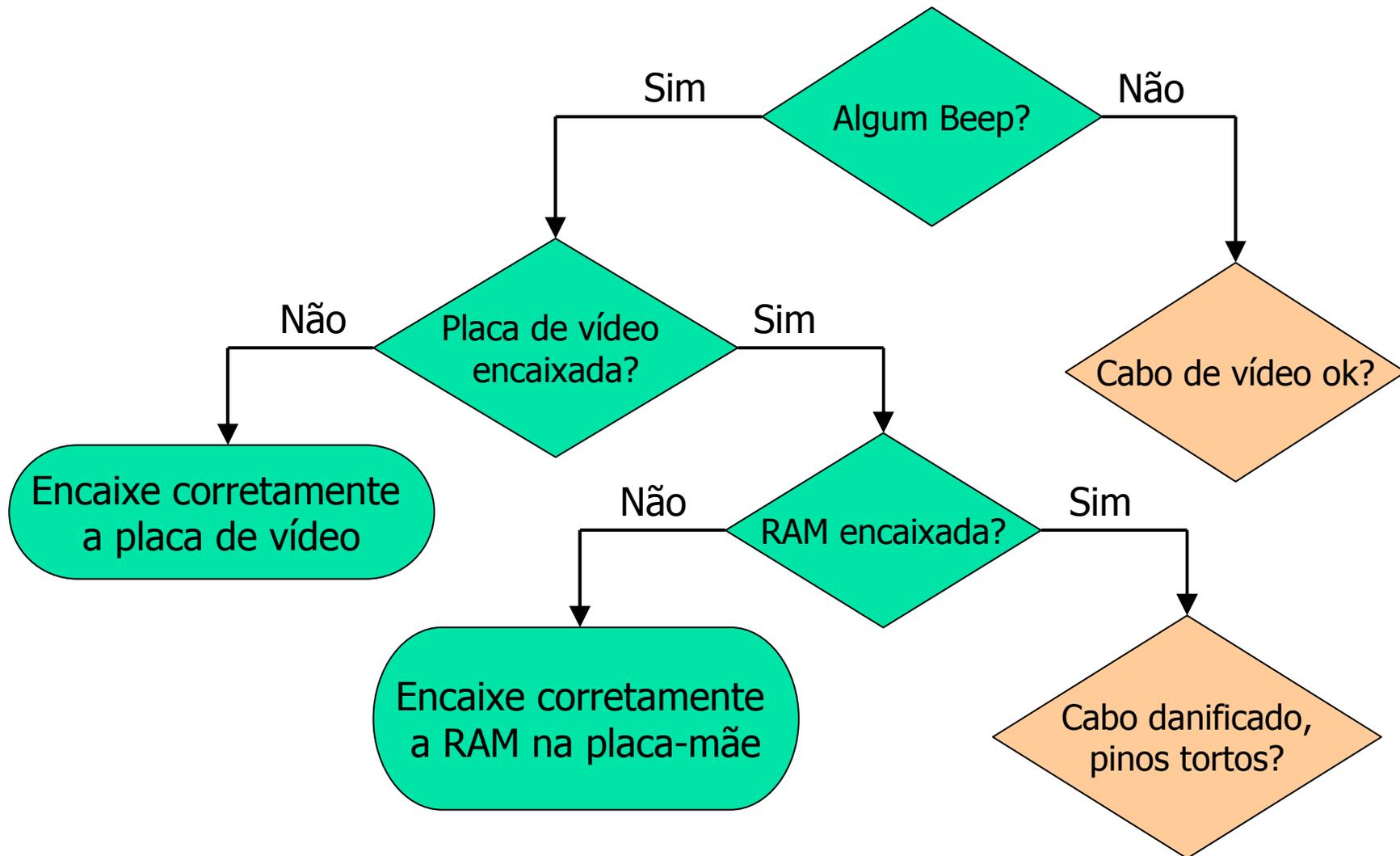
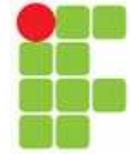
# Defeito no vídeo



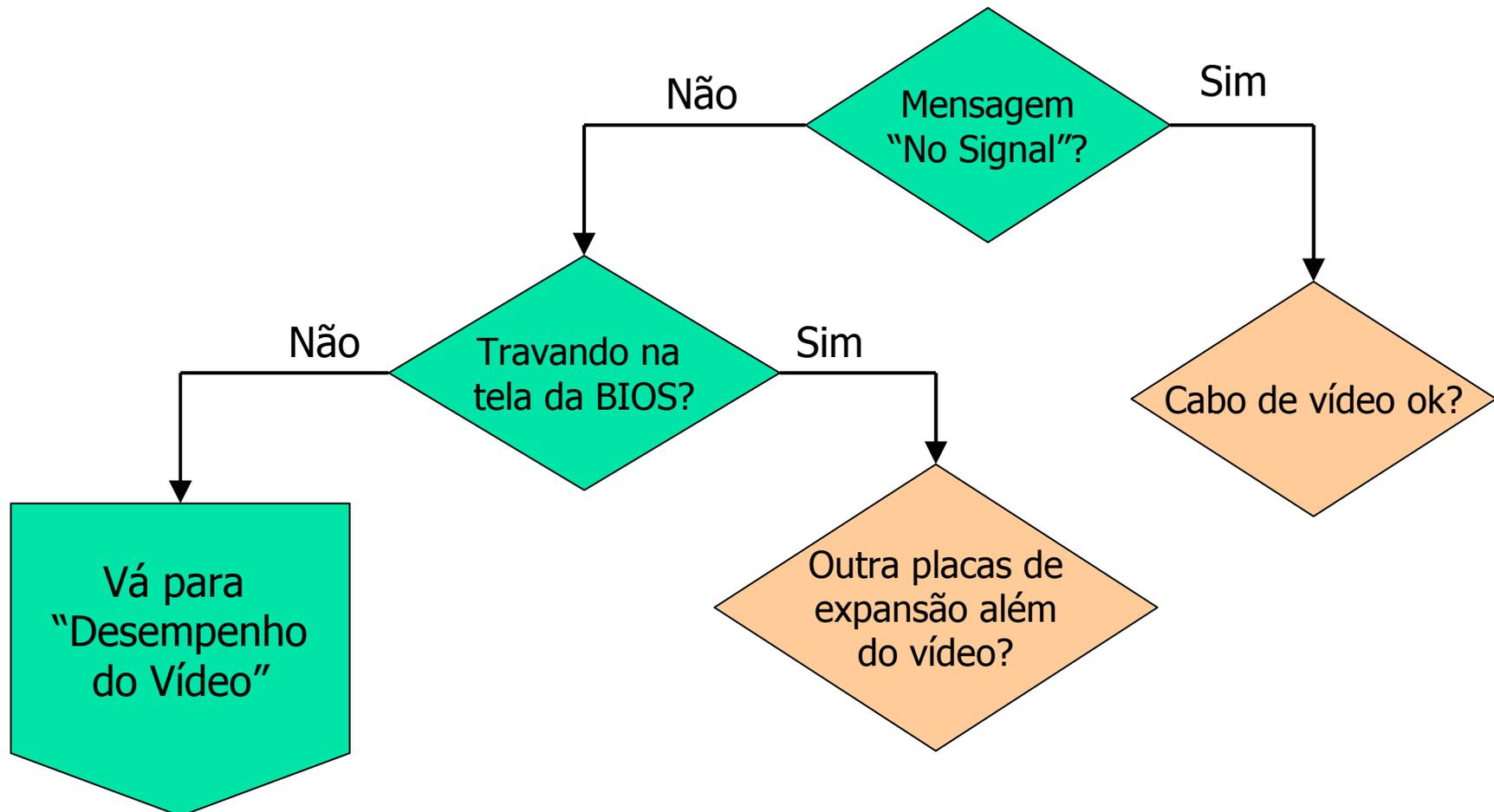
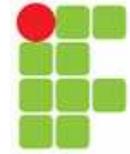
# Defeito no vídeo



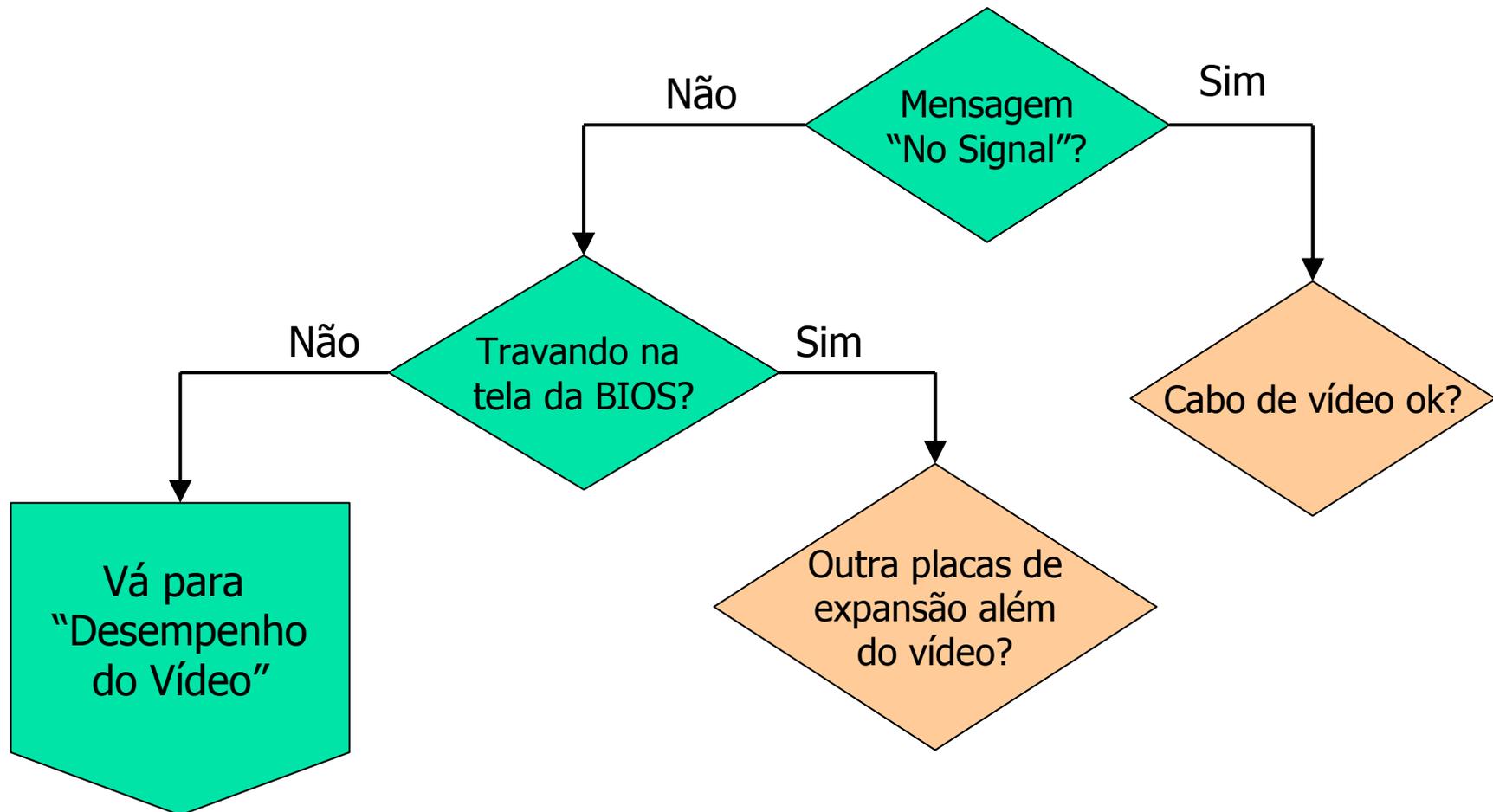
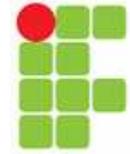
# Defeito no vídeo



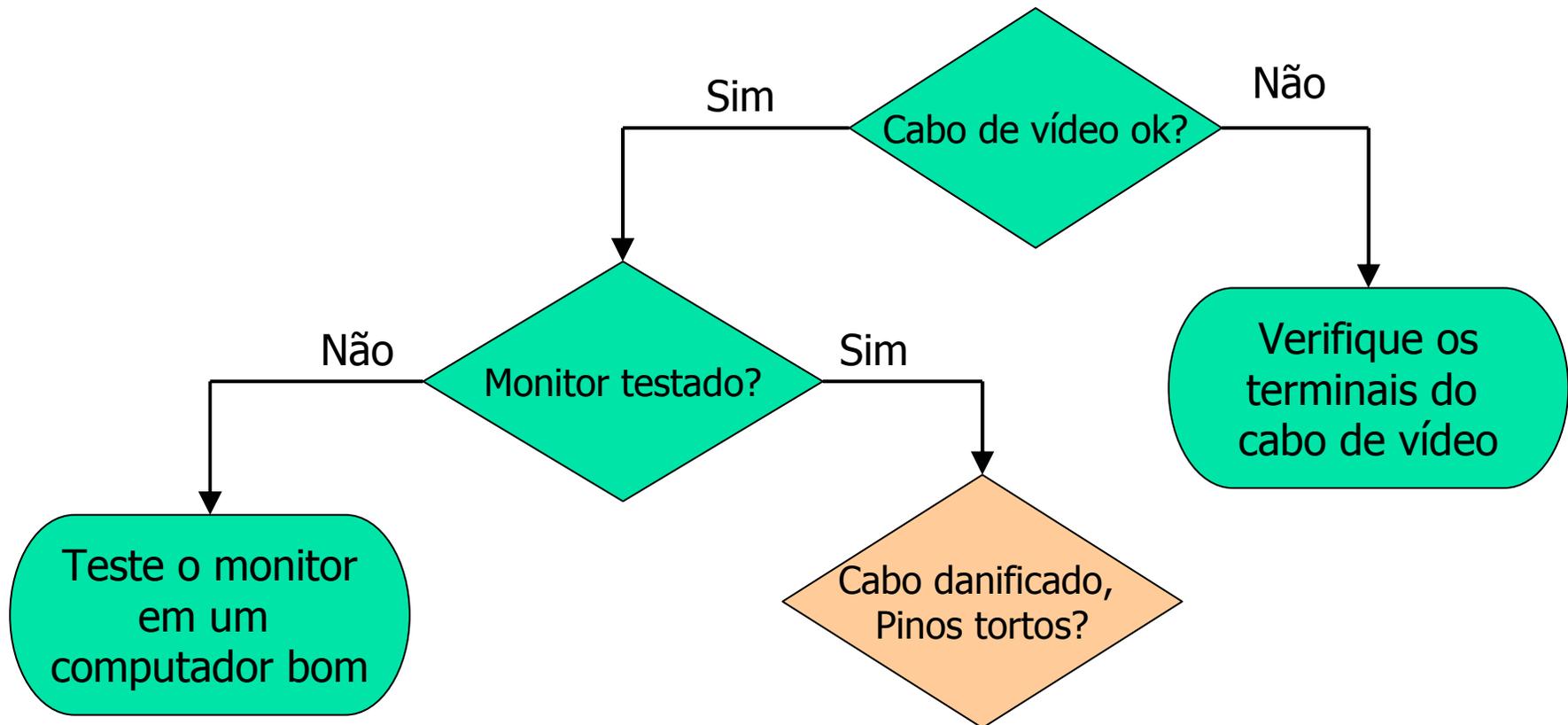
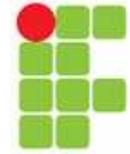
# Defeito no vídeo



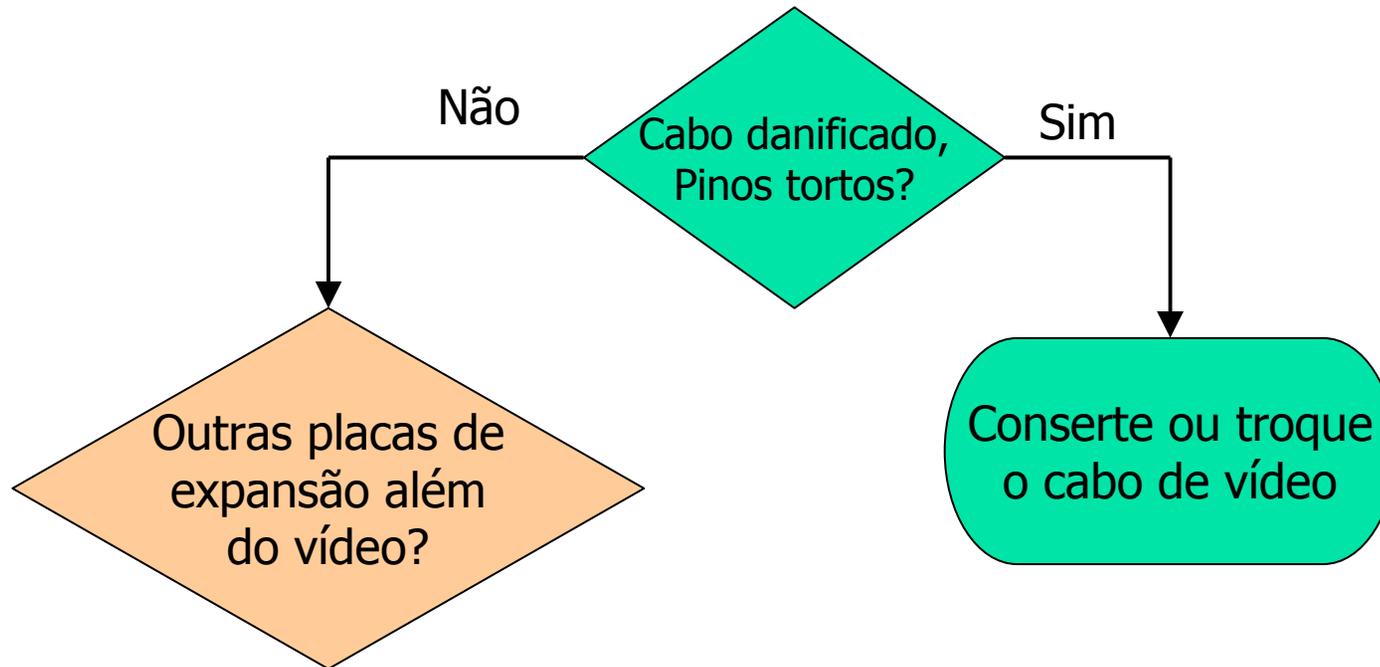
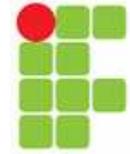
# Defeito no vídeo



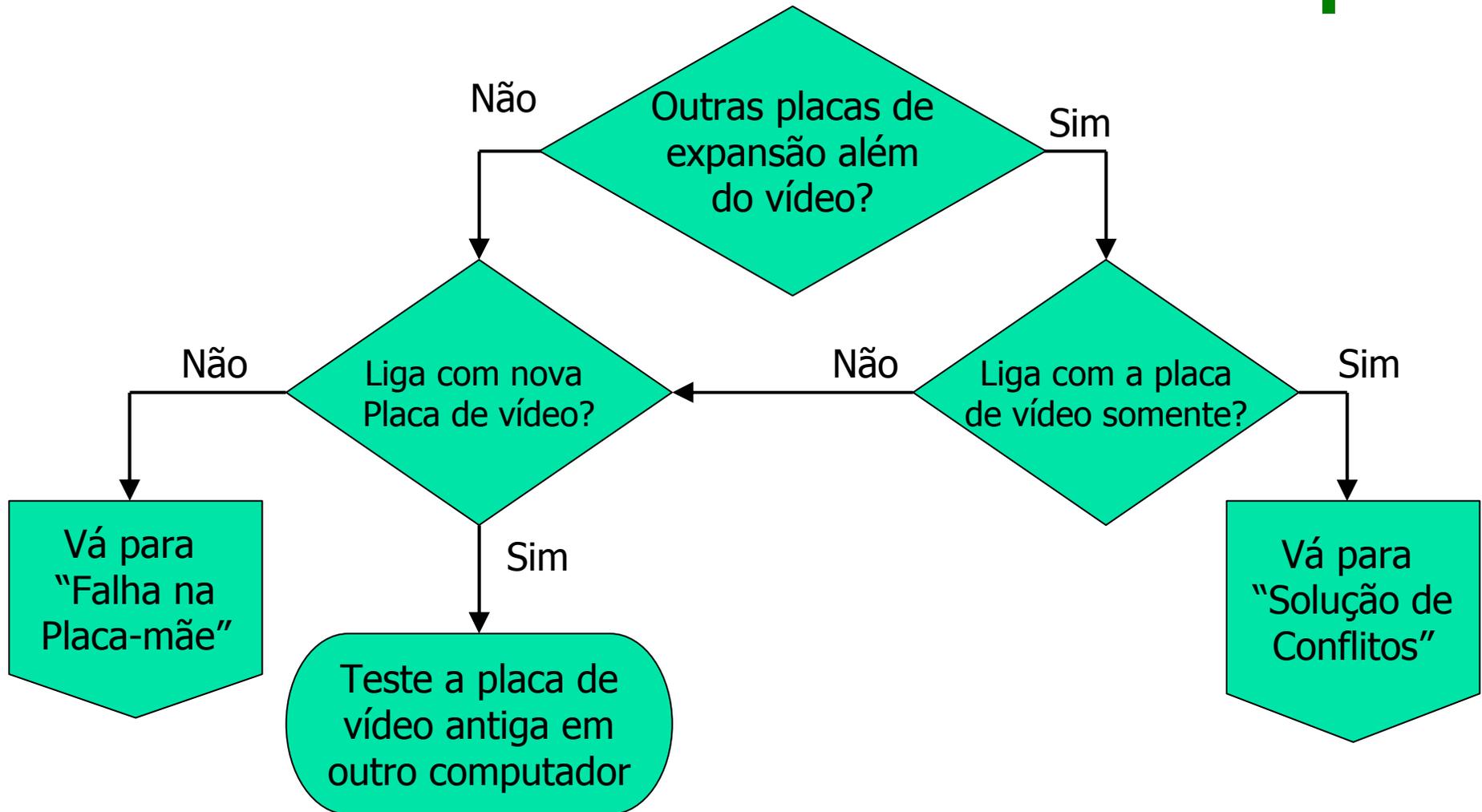
# Defeito no vídeo



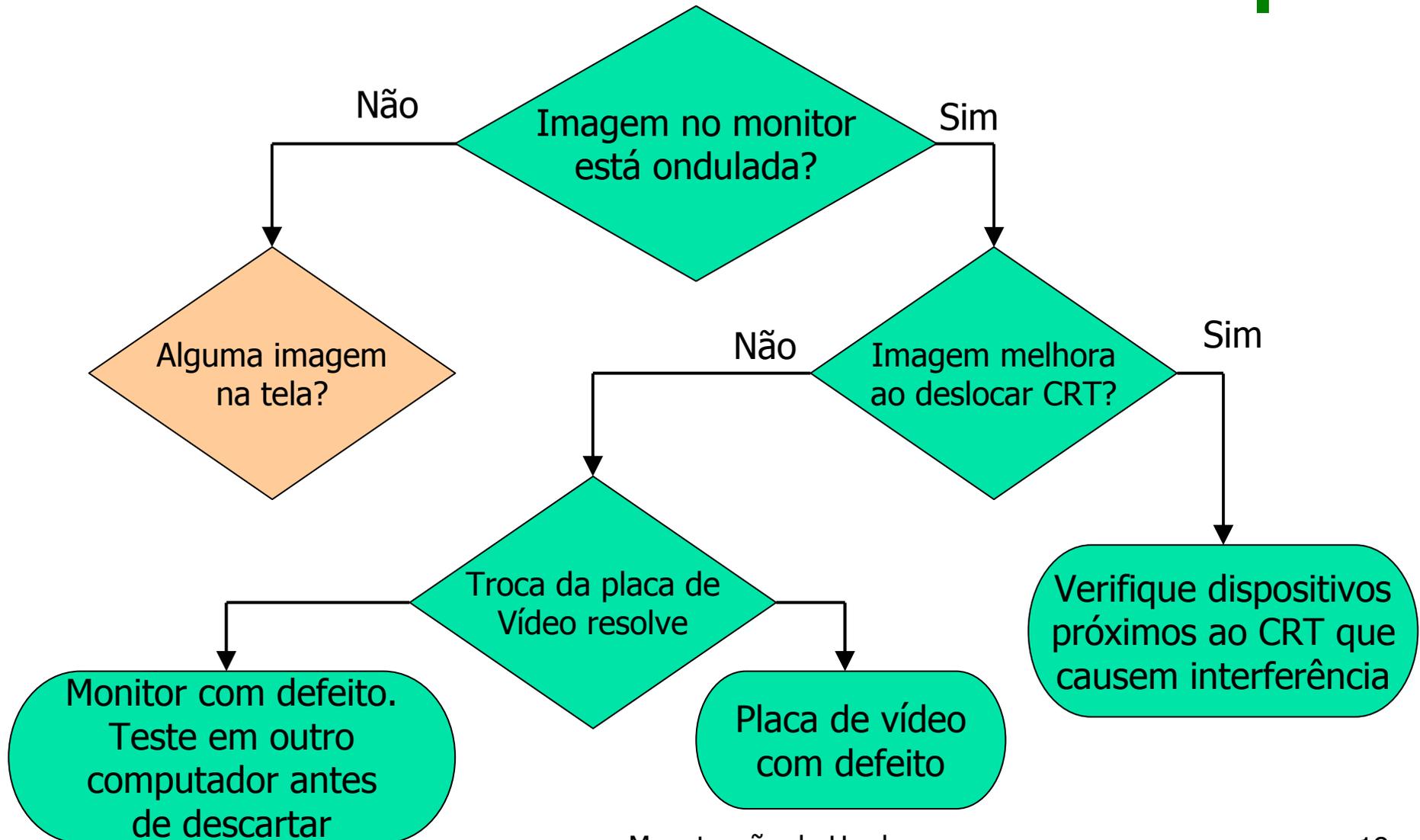
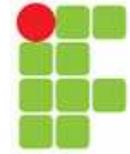
# Defeito no vídeo



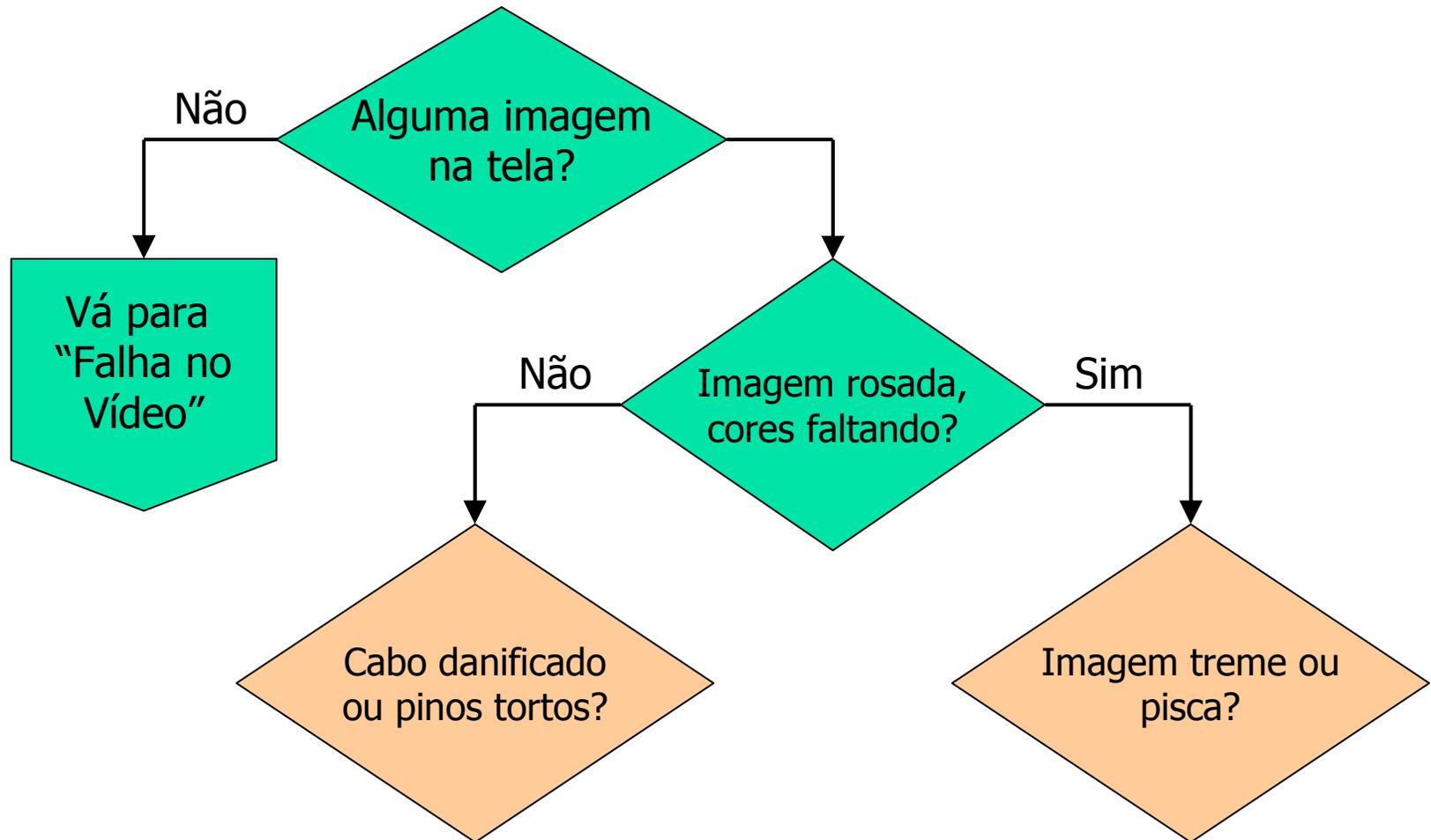
# Defeito no vídeo



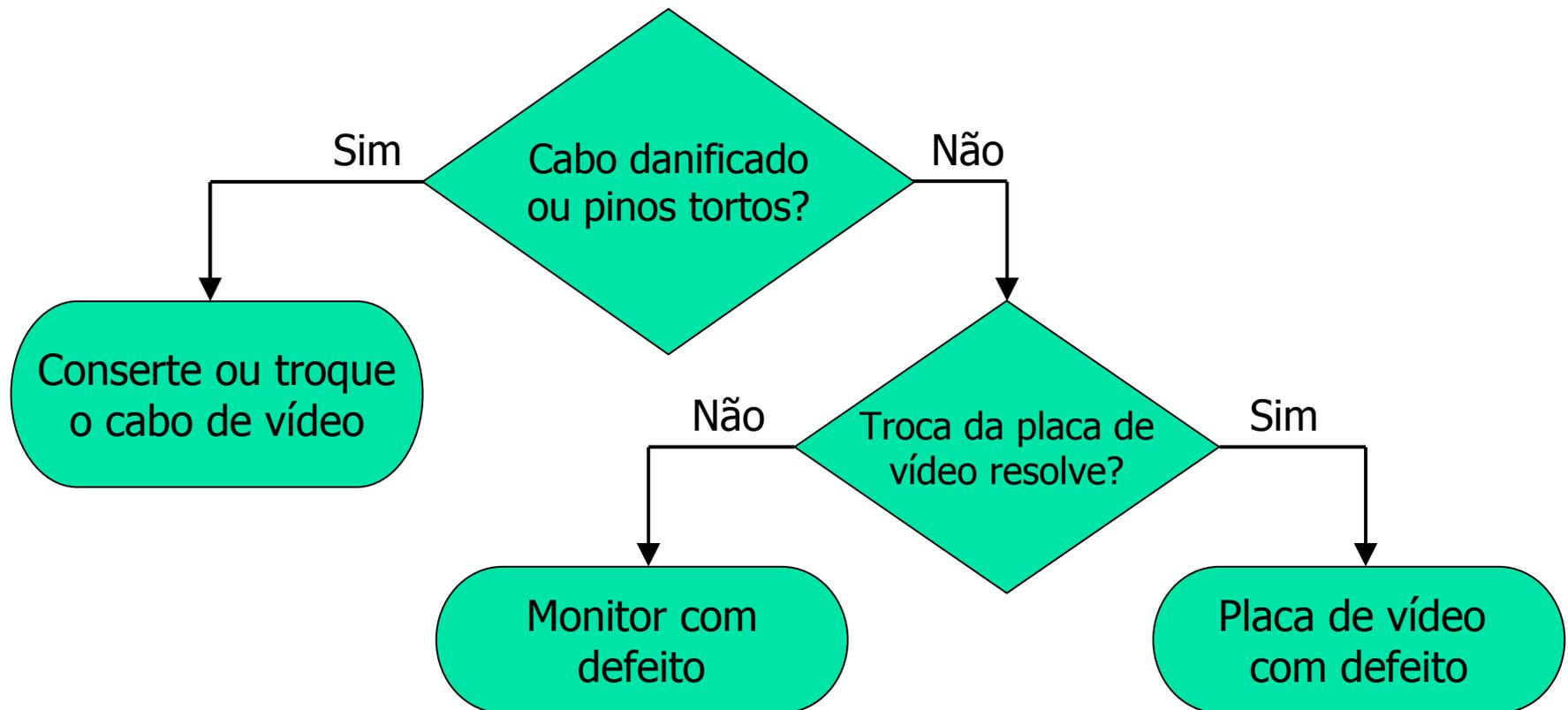
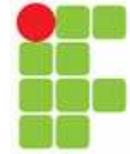
# Desempenho do vídeo



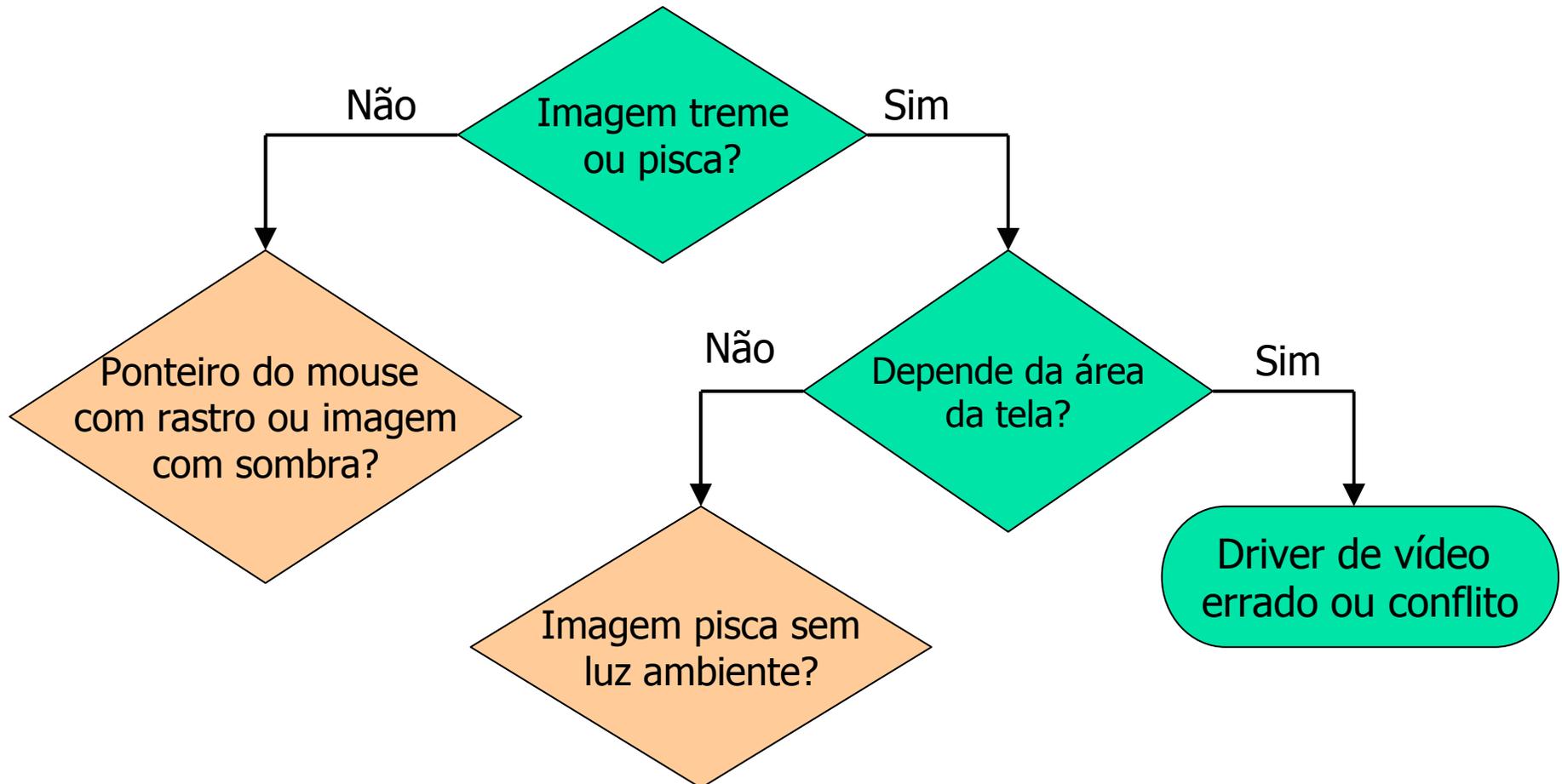
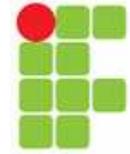
# Desempenho do vídeo



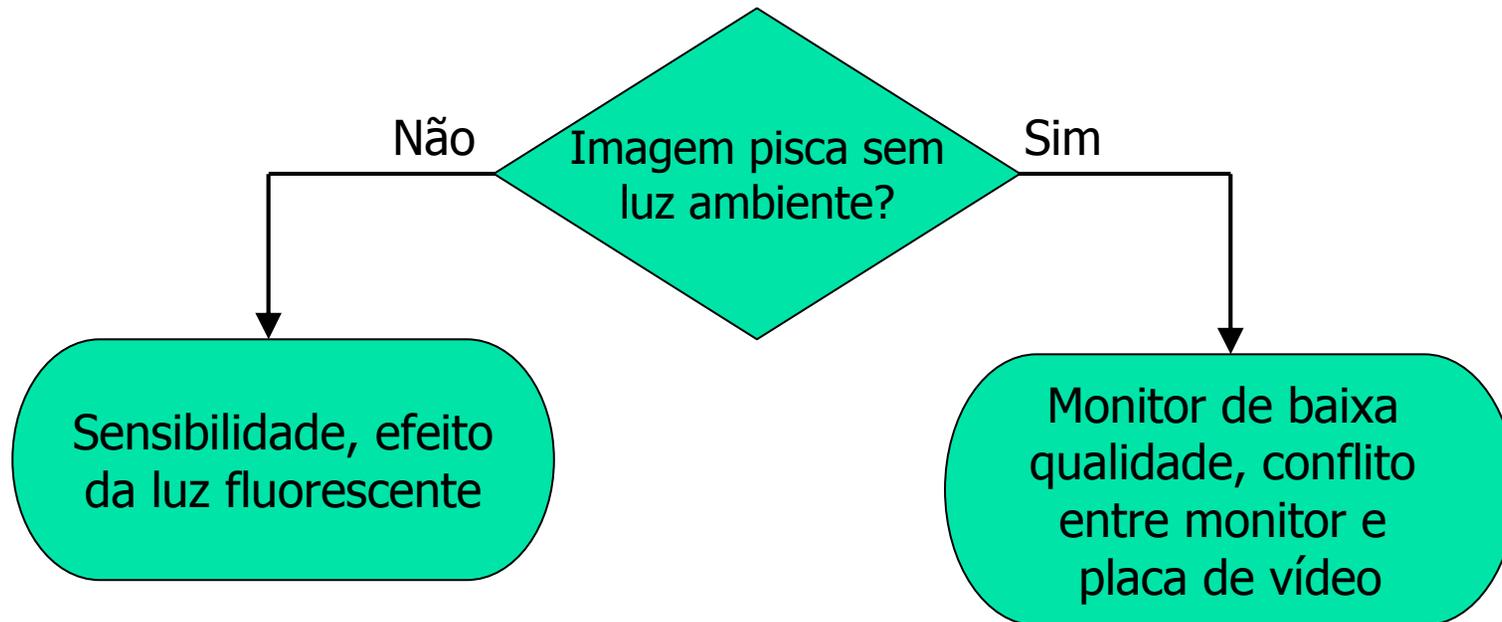
# Desempenho do vídeo



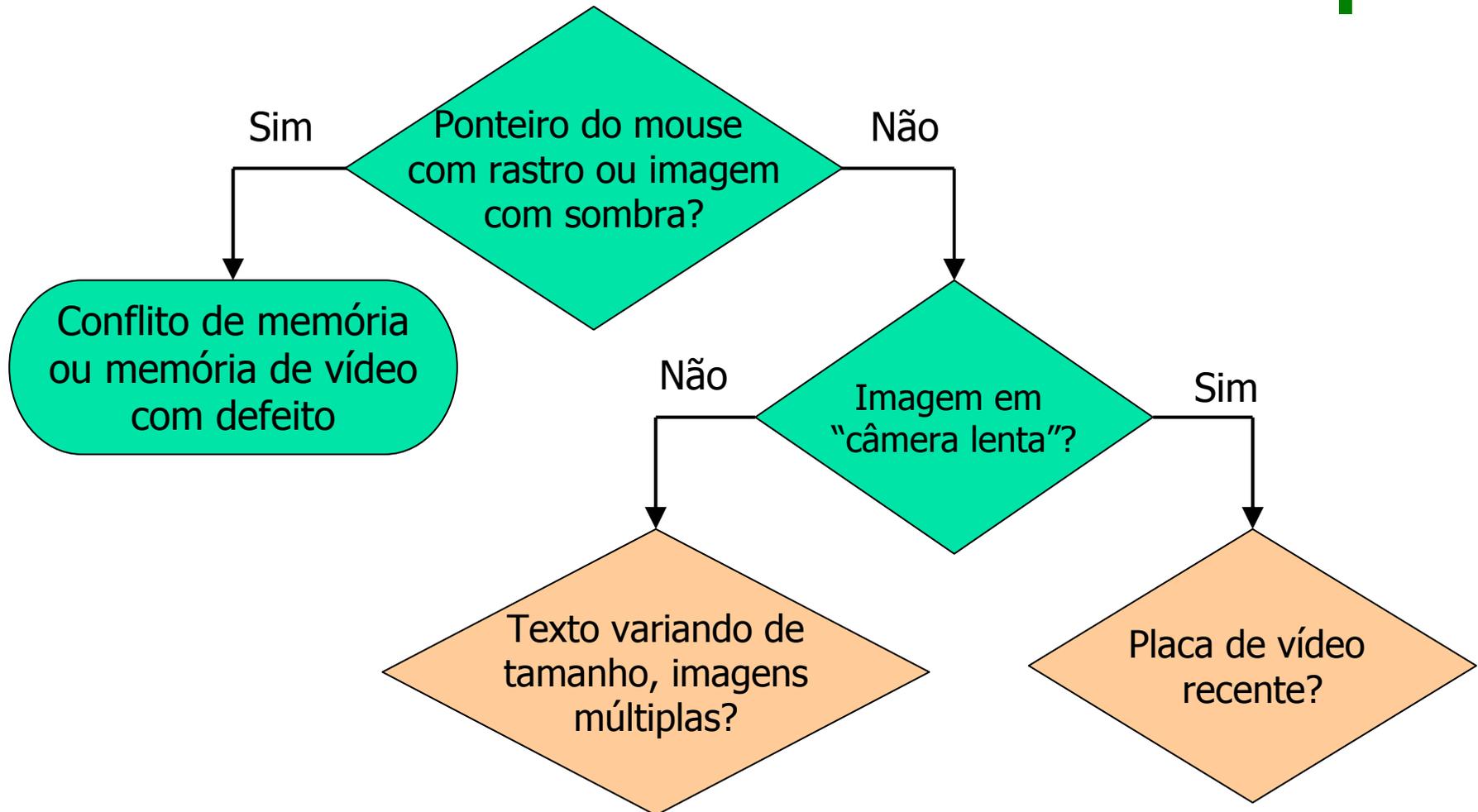
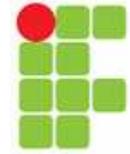
# Desempenho do vídeo



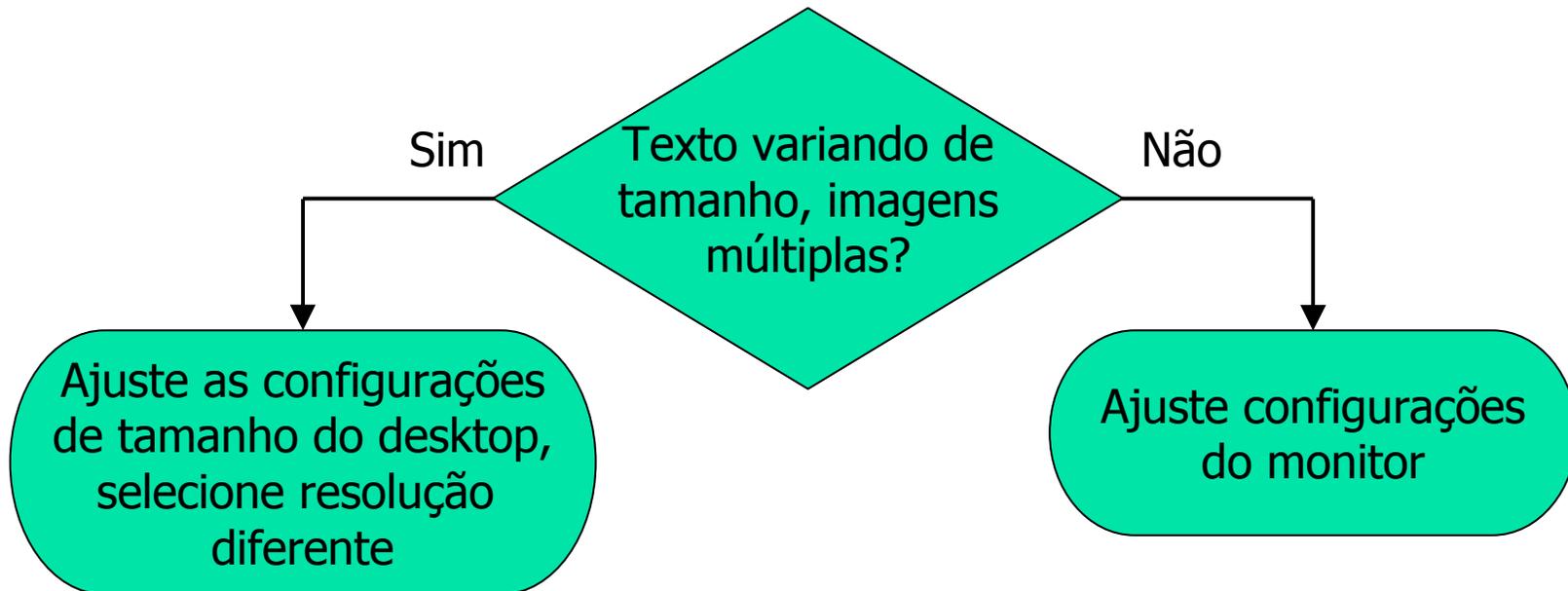
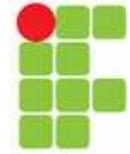
# Desempenho do vídeo



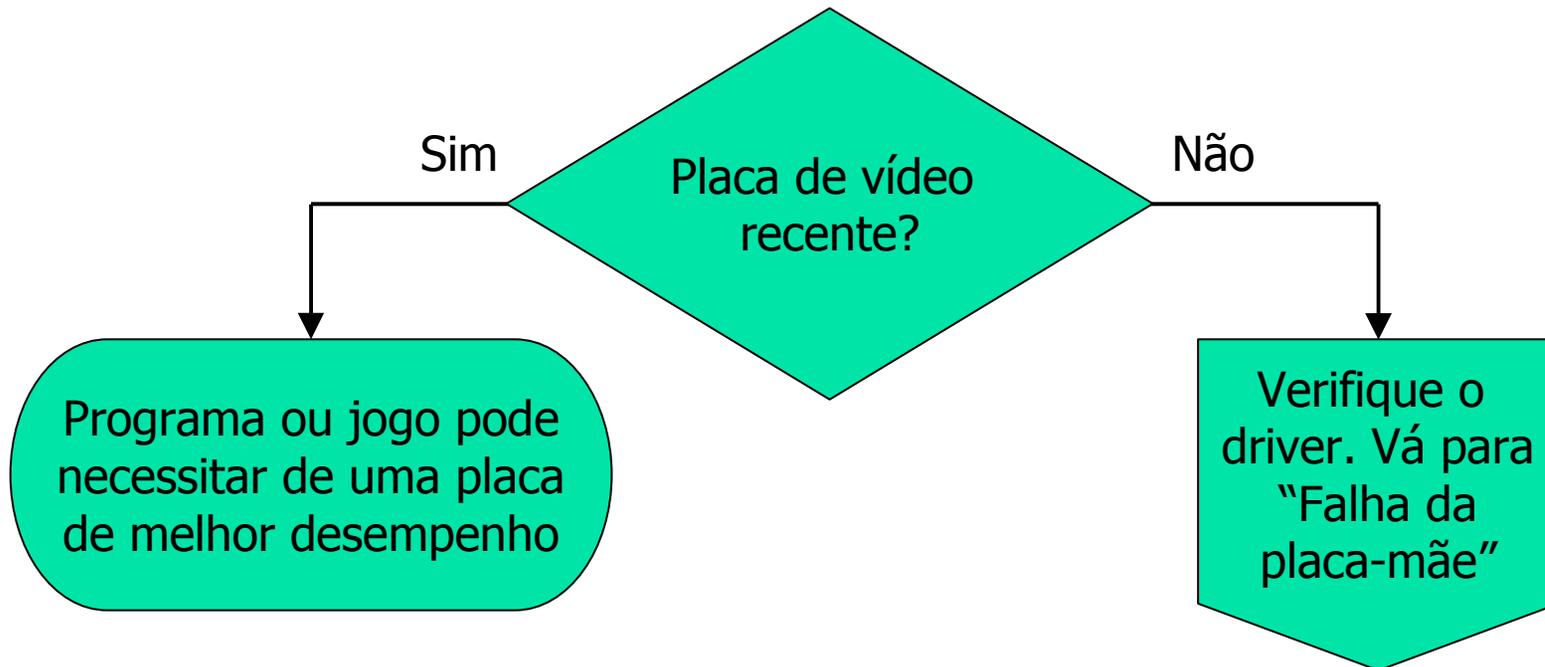
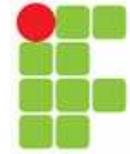
# Desempenho do vídeo



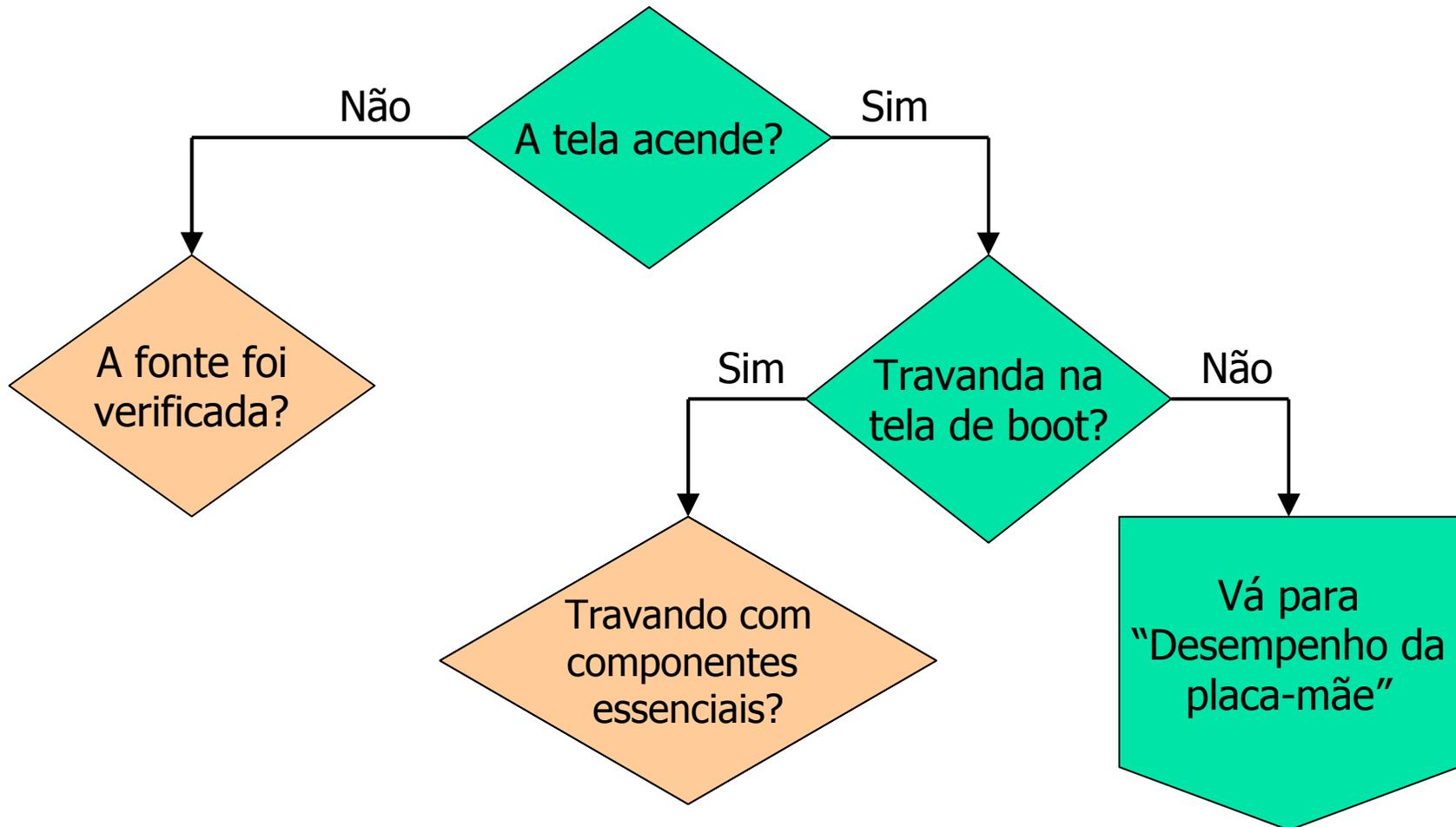
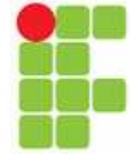
# Desempenho do vídeo



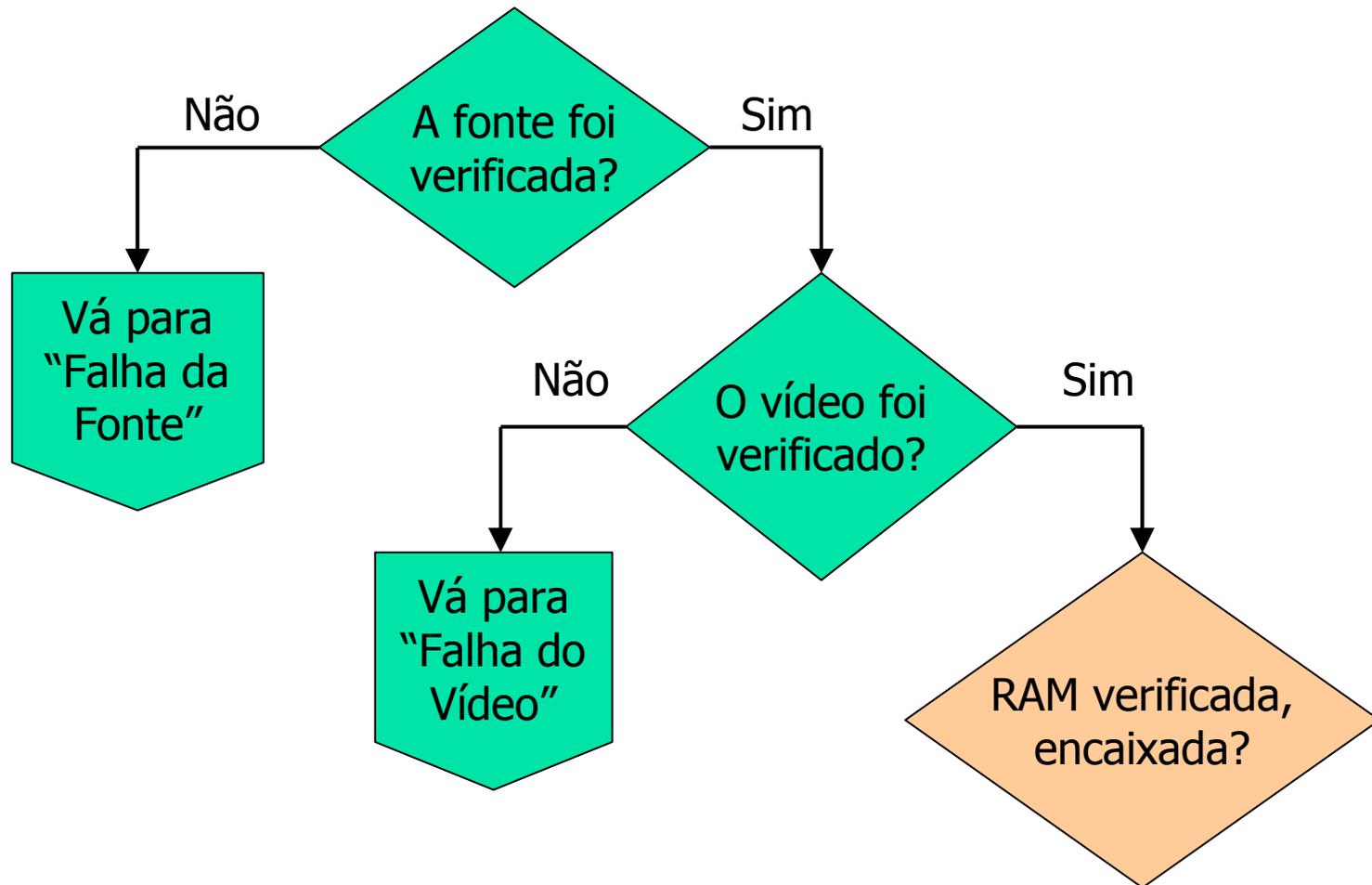
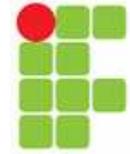
# Desempenho do vídeo



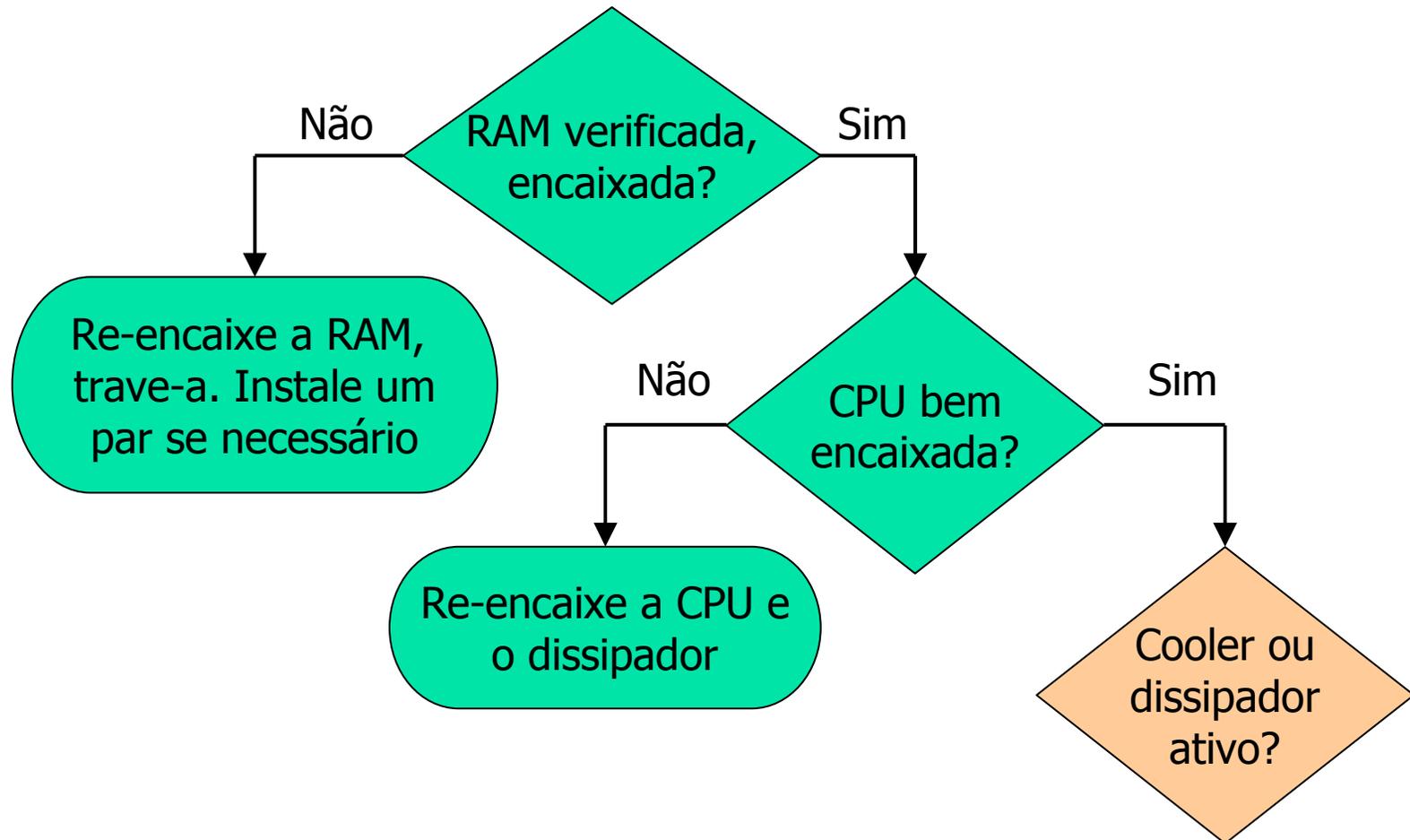
# Defeito na MoBo, CPU e RAM



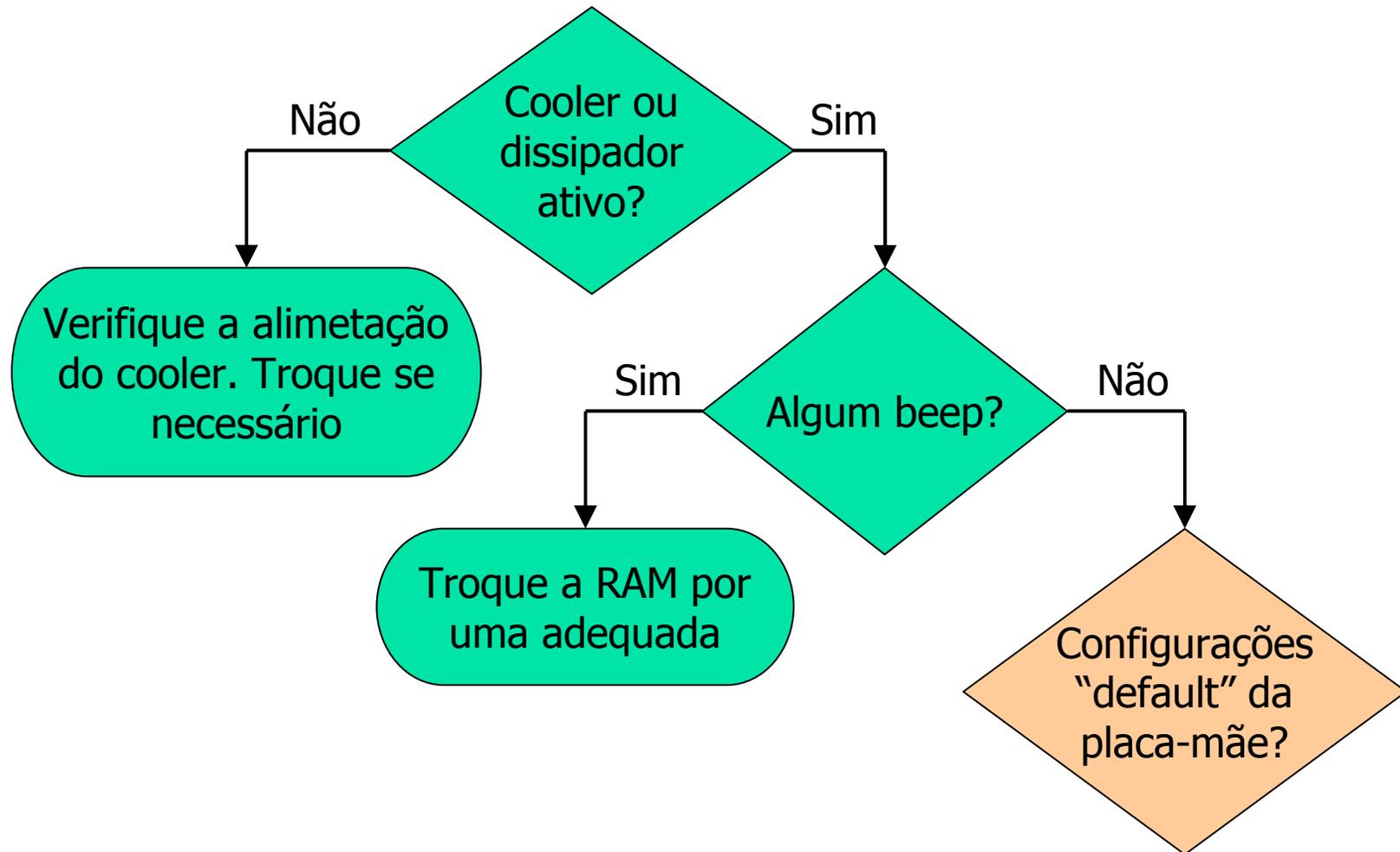
# Defeito na MoBo, CPU e RAM



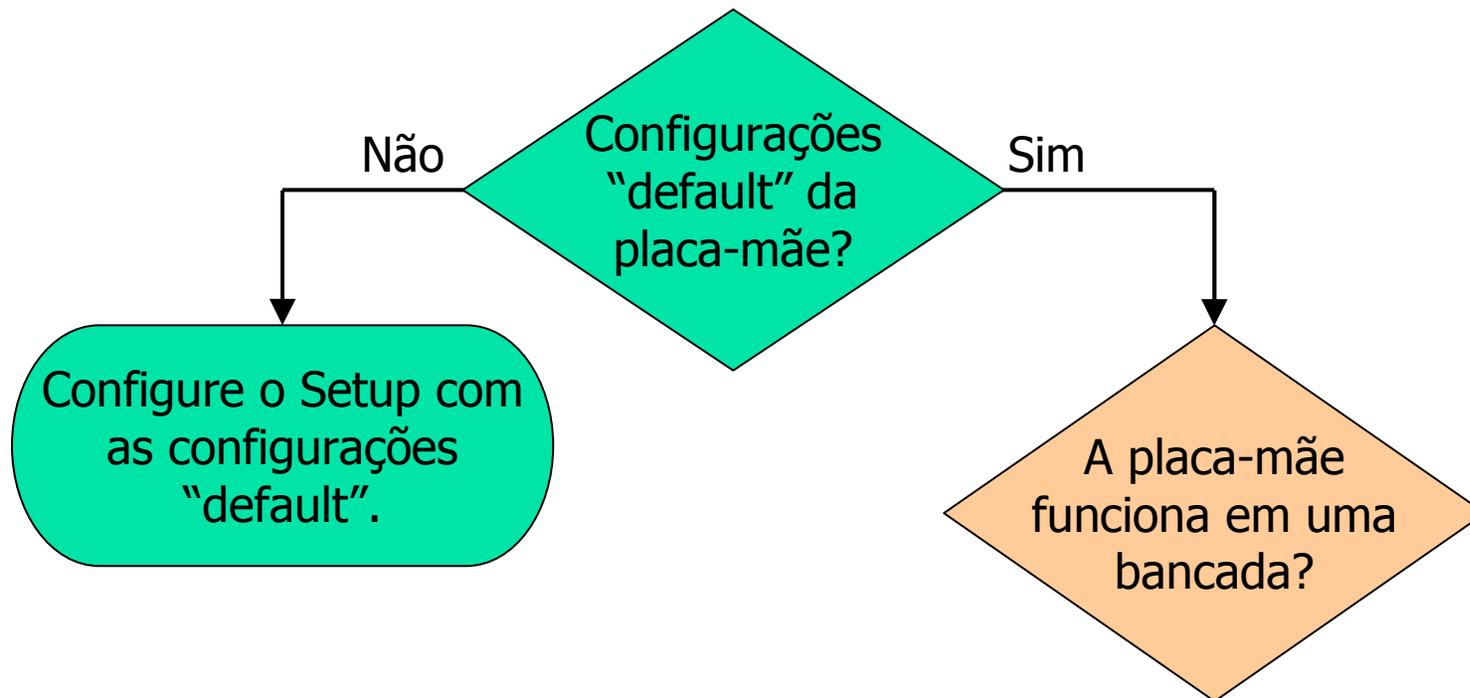
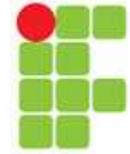
# Defeito na MoBo, CPU e RAM



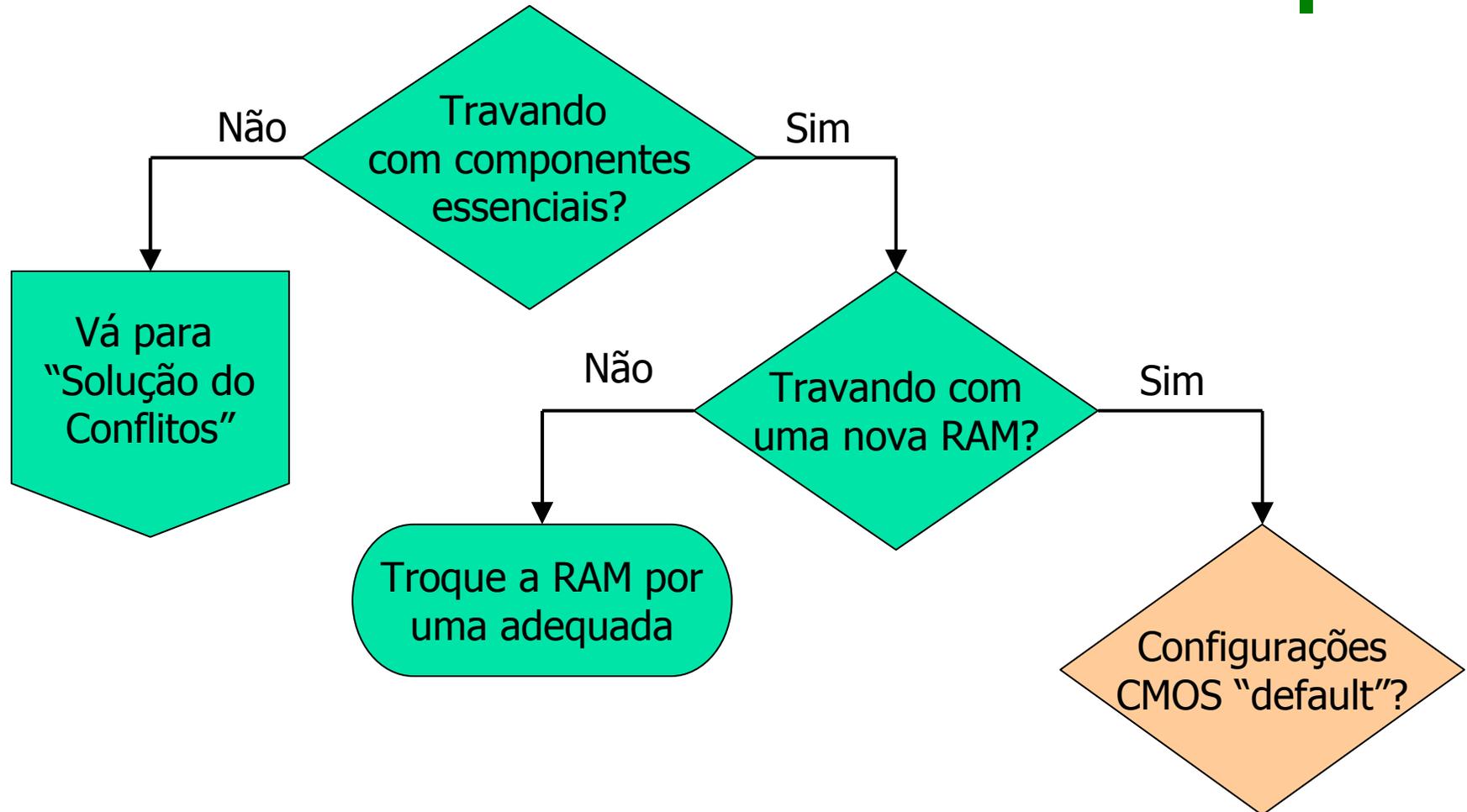
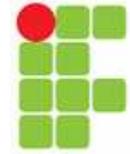
# Defeito na MoBo, CPU e RAM



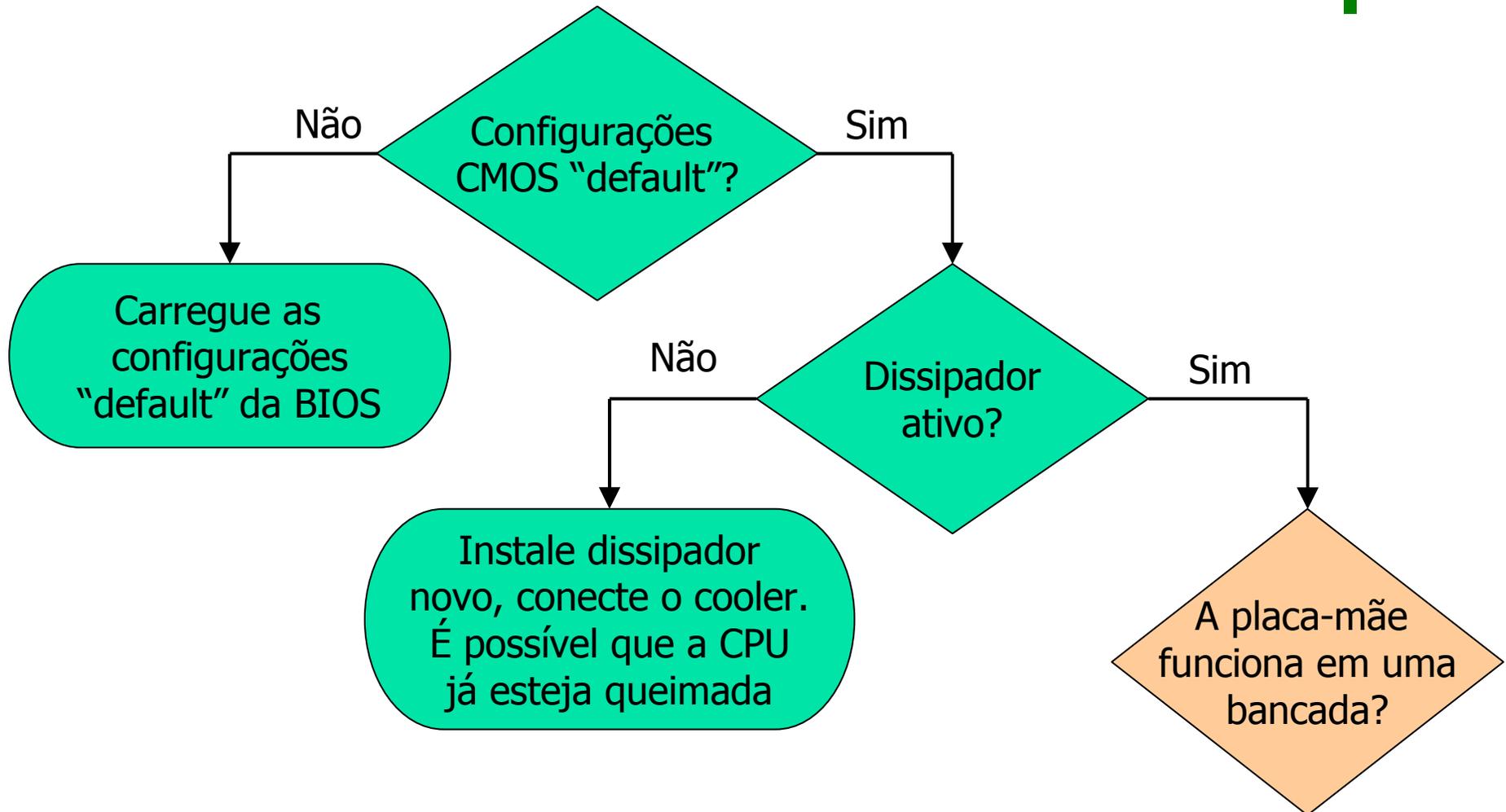
# Defeito na MoBo, CPU e RAM



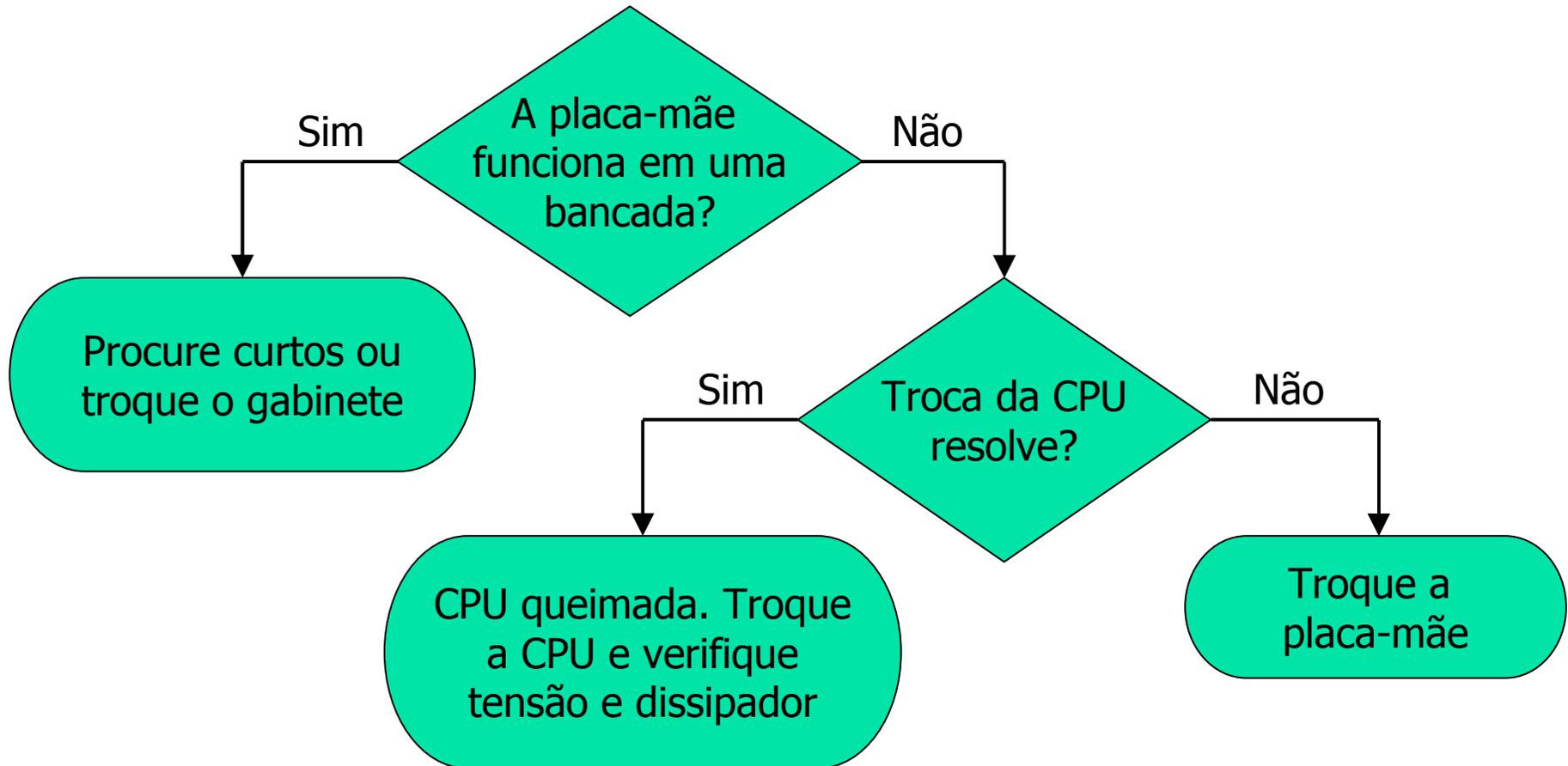
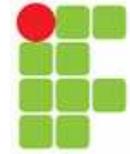
# Defeito na MoBo, CPU e RAM



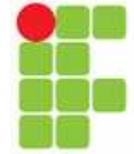
# Defeito na MoBo, CPU e RAM



# Defeito na MoBo, CPU e RAM

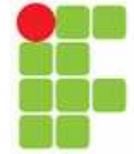


# Defeito na MoBo, CPU e RAM



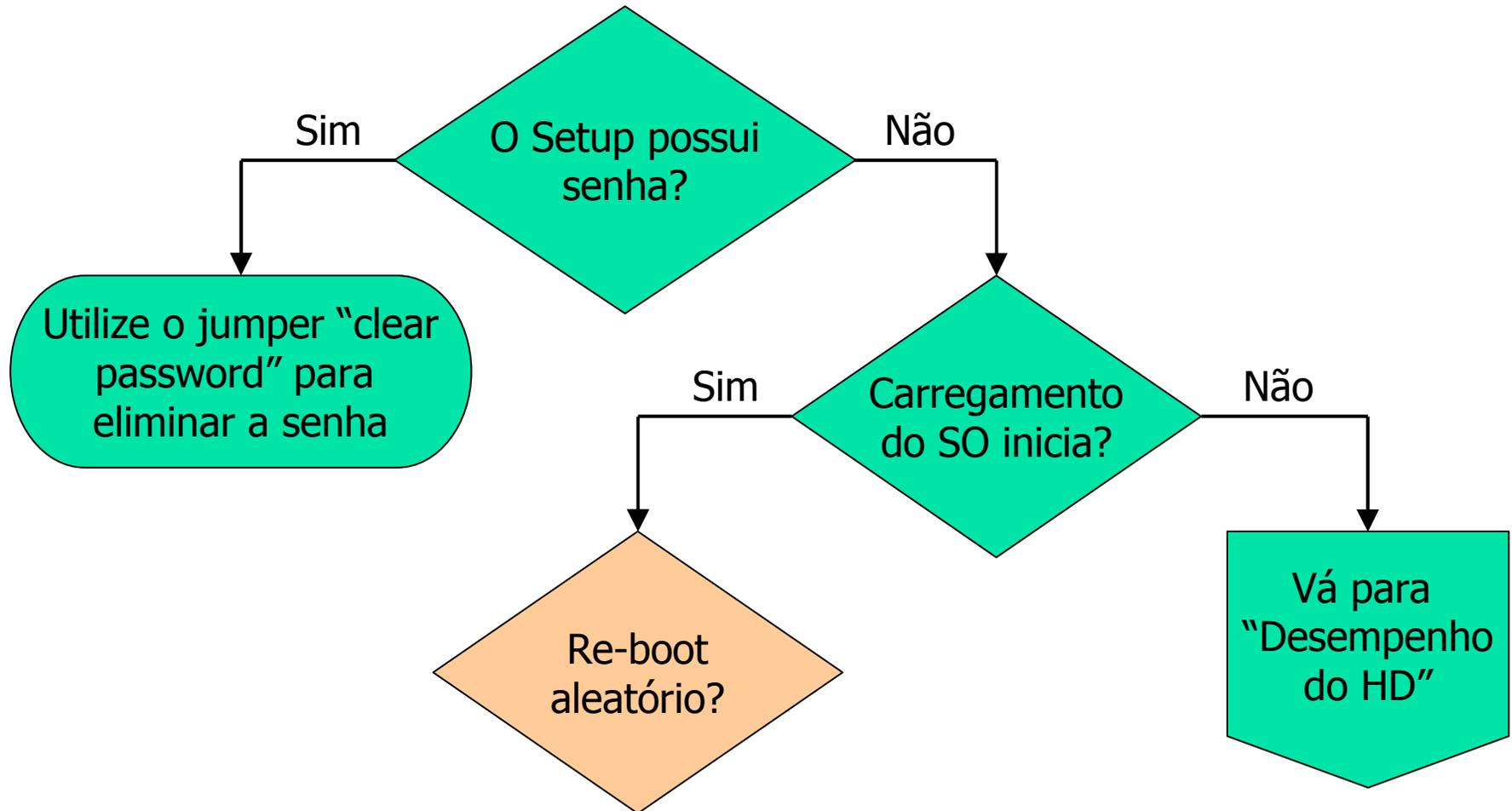
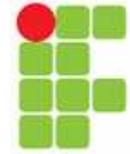
- NUNCA ignore os itens óbvios.
- Um dos defeitos mais comuns na placa-mãe é a RAM mal encaixada.
- Observe se a CPU está bem paralela a placa-mãe, é um indício que está bem encaixada.
- Observe pinos tortos na CPU.
- Um beep contínuo geralmente representa problema na RAM, enquanto que uma sequência de repetições indica RAM ou vídeo com defeito.

# Defeito na MoBo, CPU e RAM

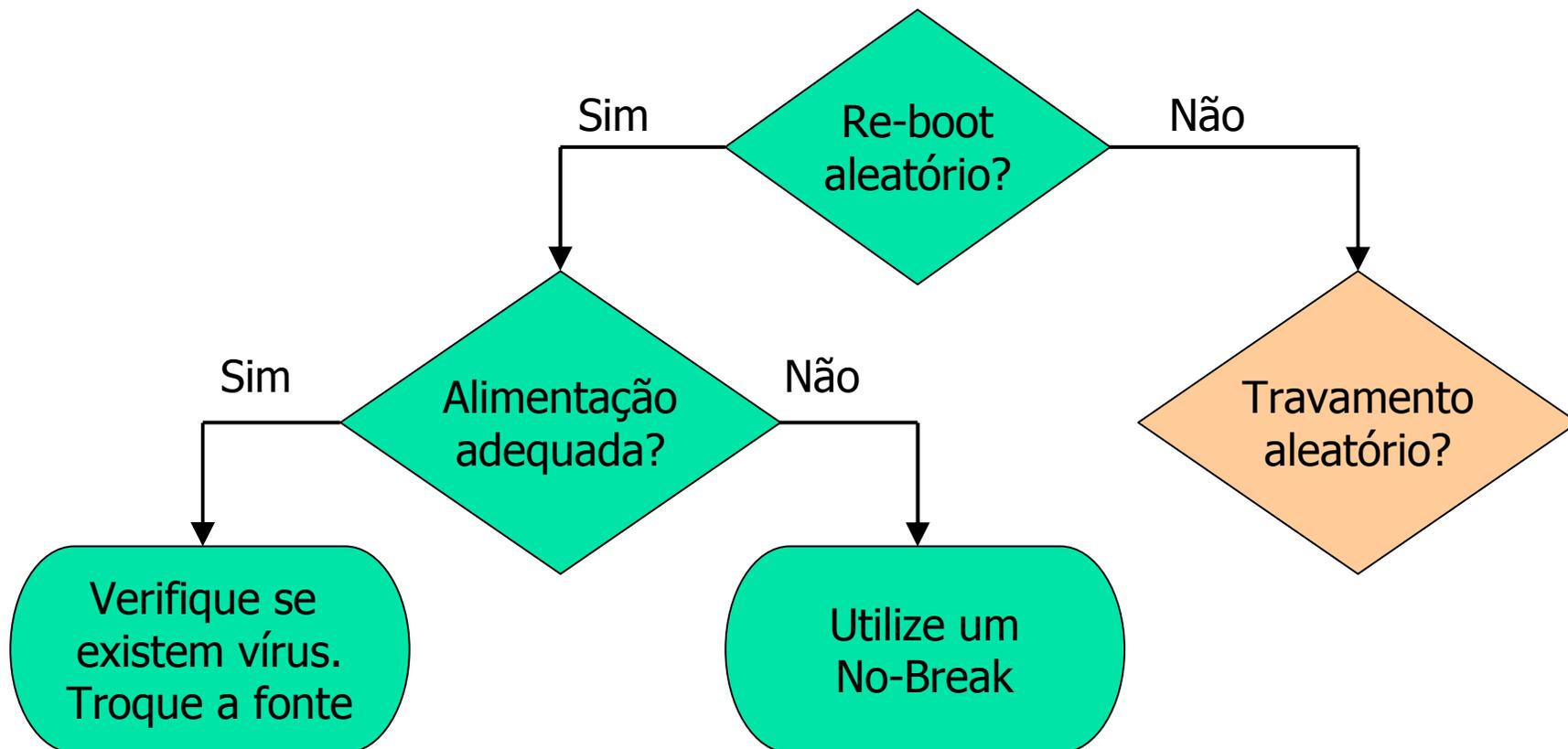


- Com Beep ou sem beep, tente sempre re-encaixar a RAM e a placa de vídeo.
- Nunca descarte uma placa-mãe antes de testá-la fora gabinete.
- Use a pasta térmica com moderação. Ela serve apenas para preencher minúsculos espaços entre a CPU e dissipador.
- A CPU pode queimar em segundos sem um dissipador. Não ligue o PC sem ele.

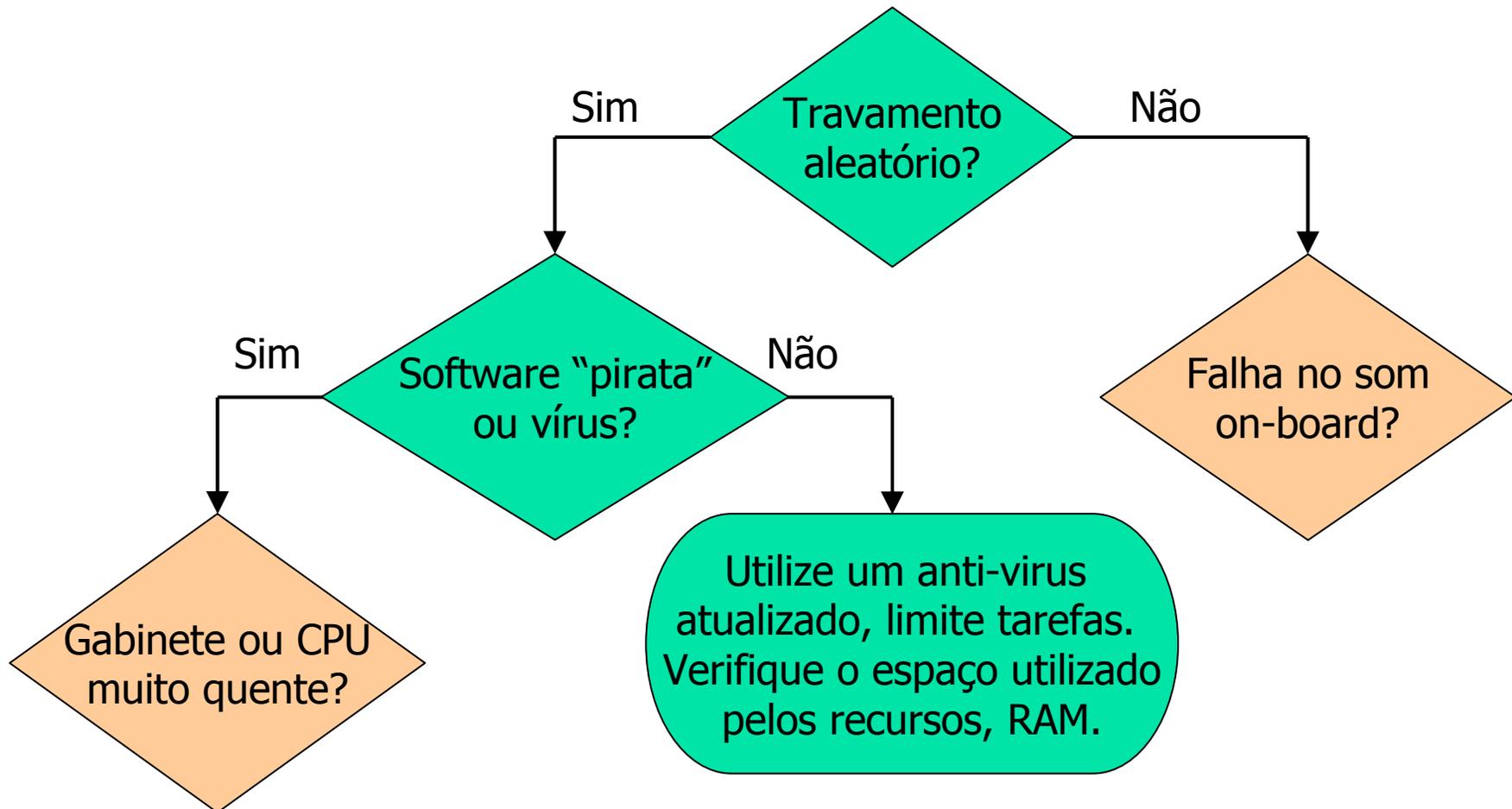
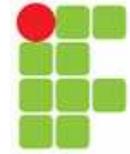
# Desempenho da MoBo, CPU e RAM



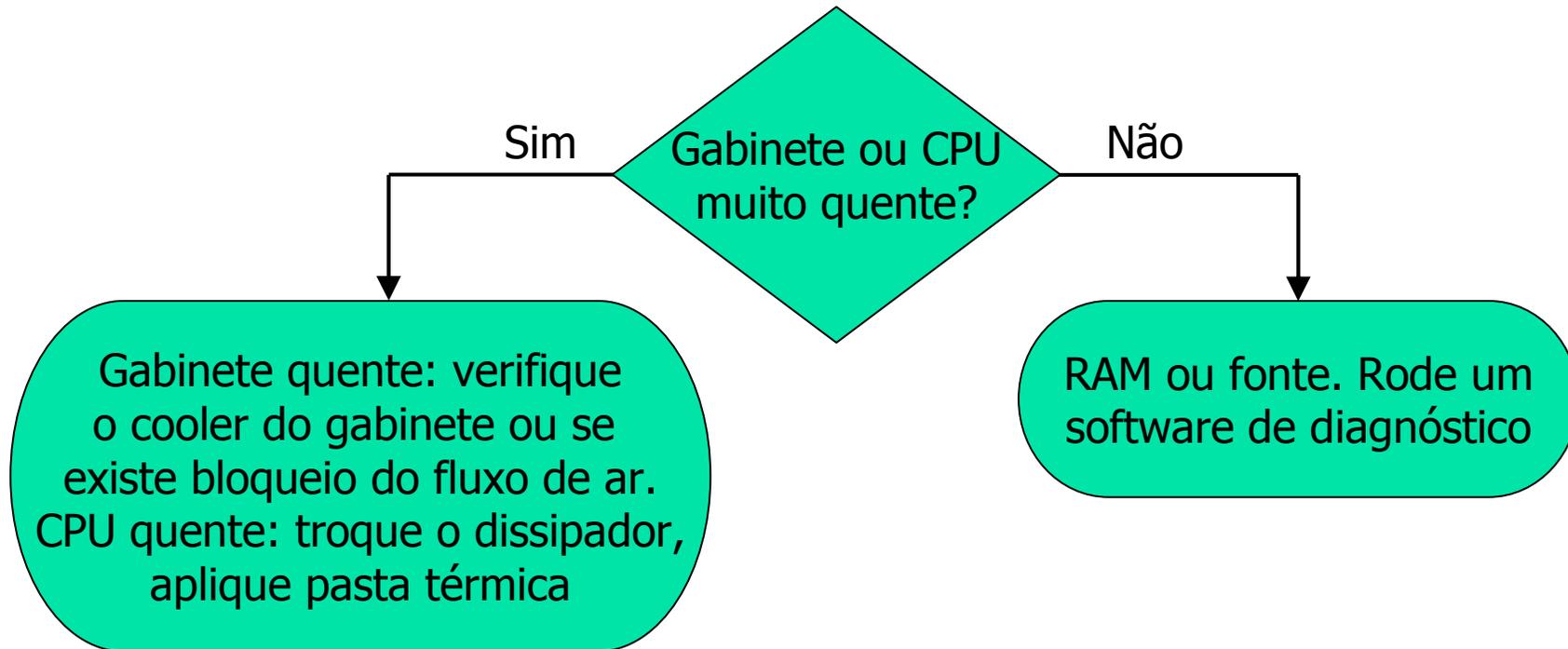
# Desempenho da MoBo, CPU e RAM



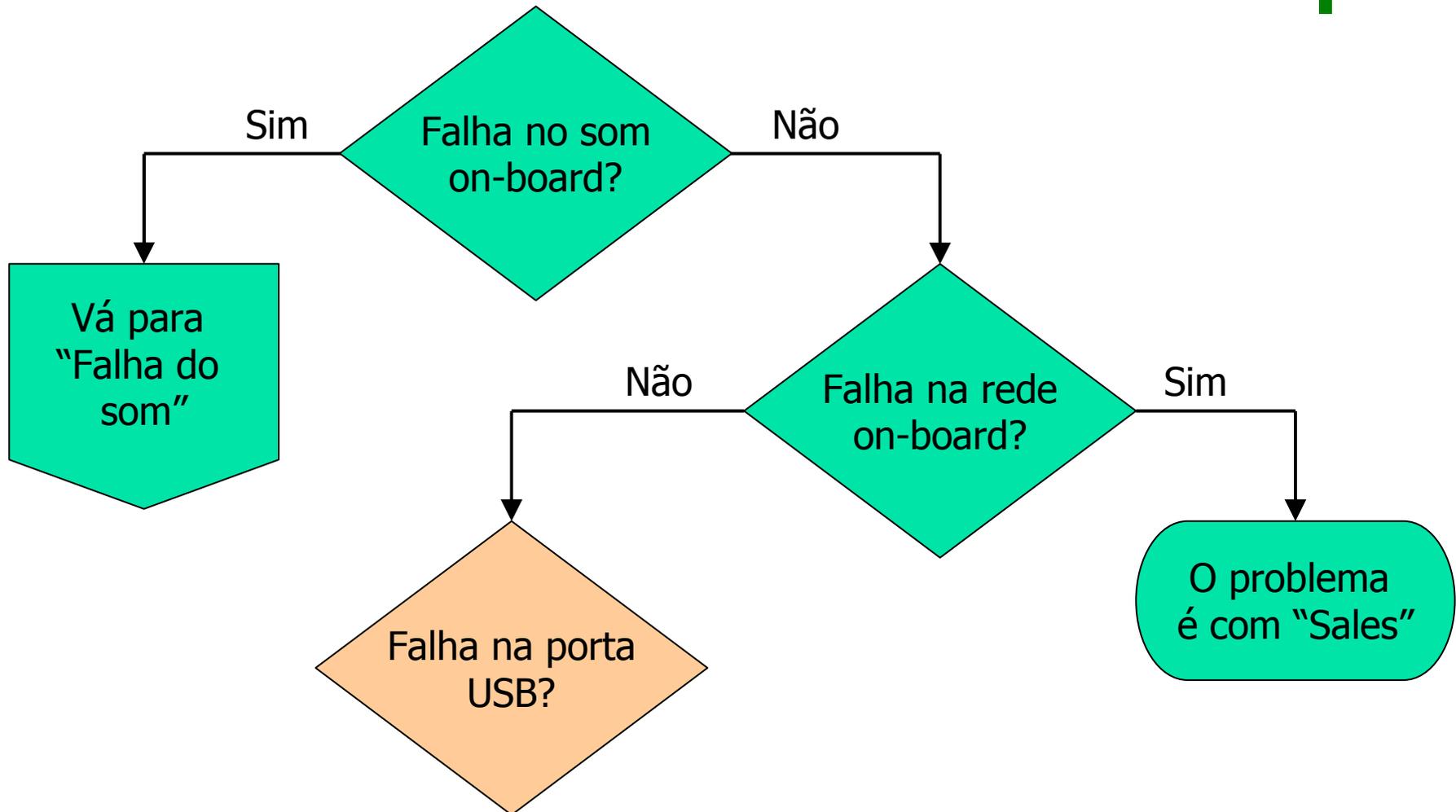
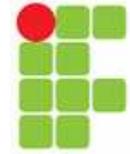
# Desempenho da MoBo, CPU e RAM



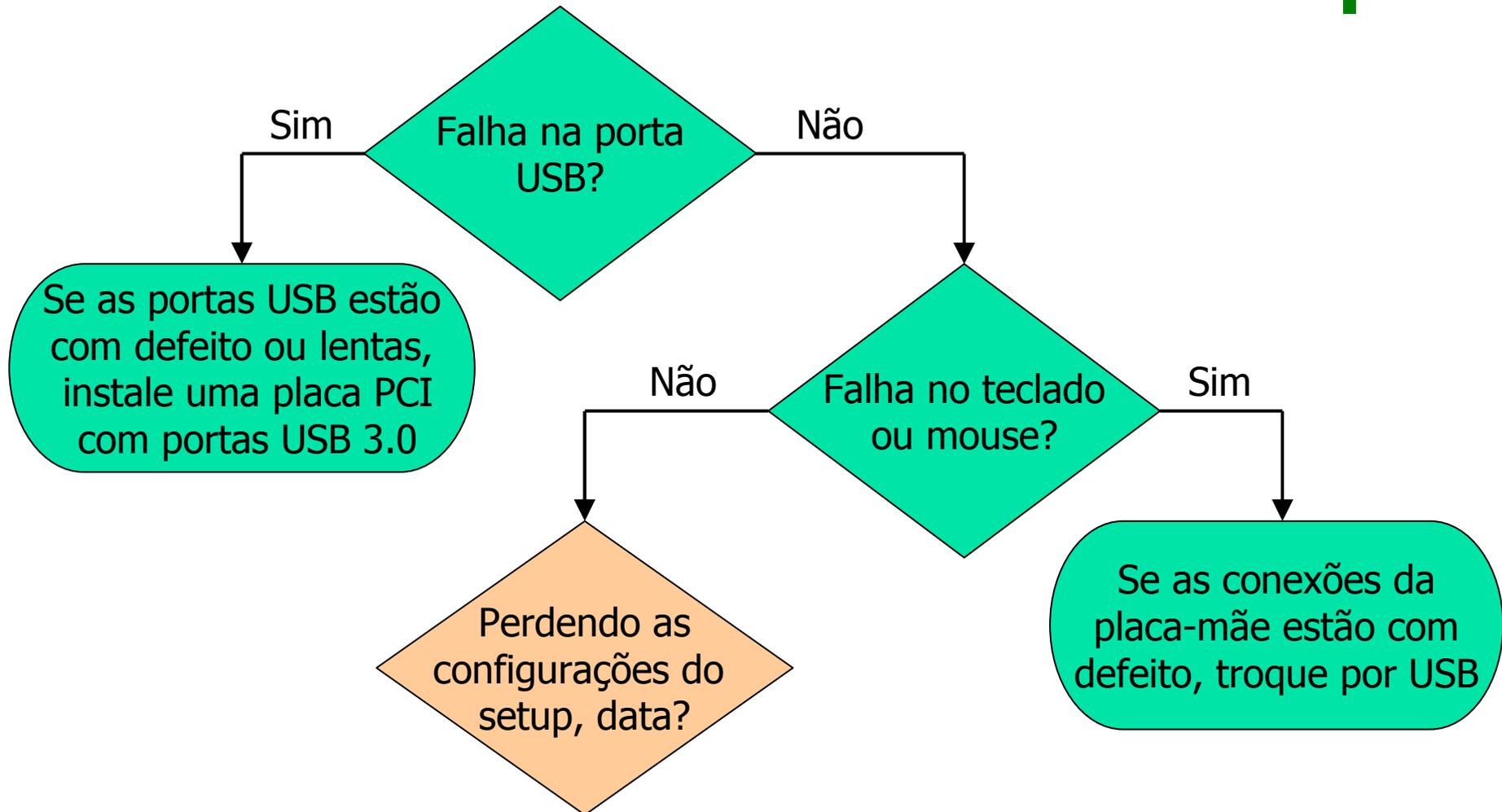
# Desempenho da MoBo, CPU e RAM



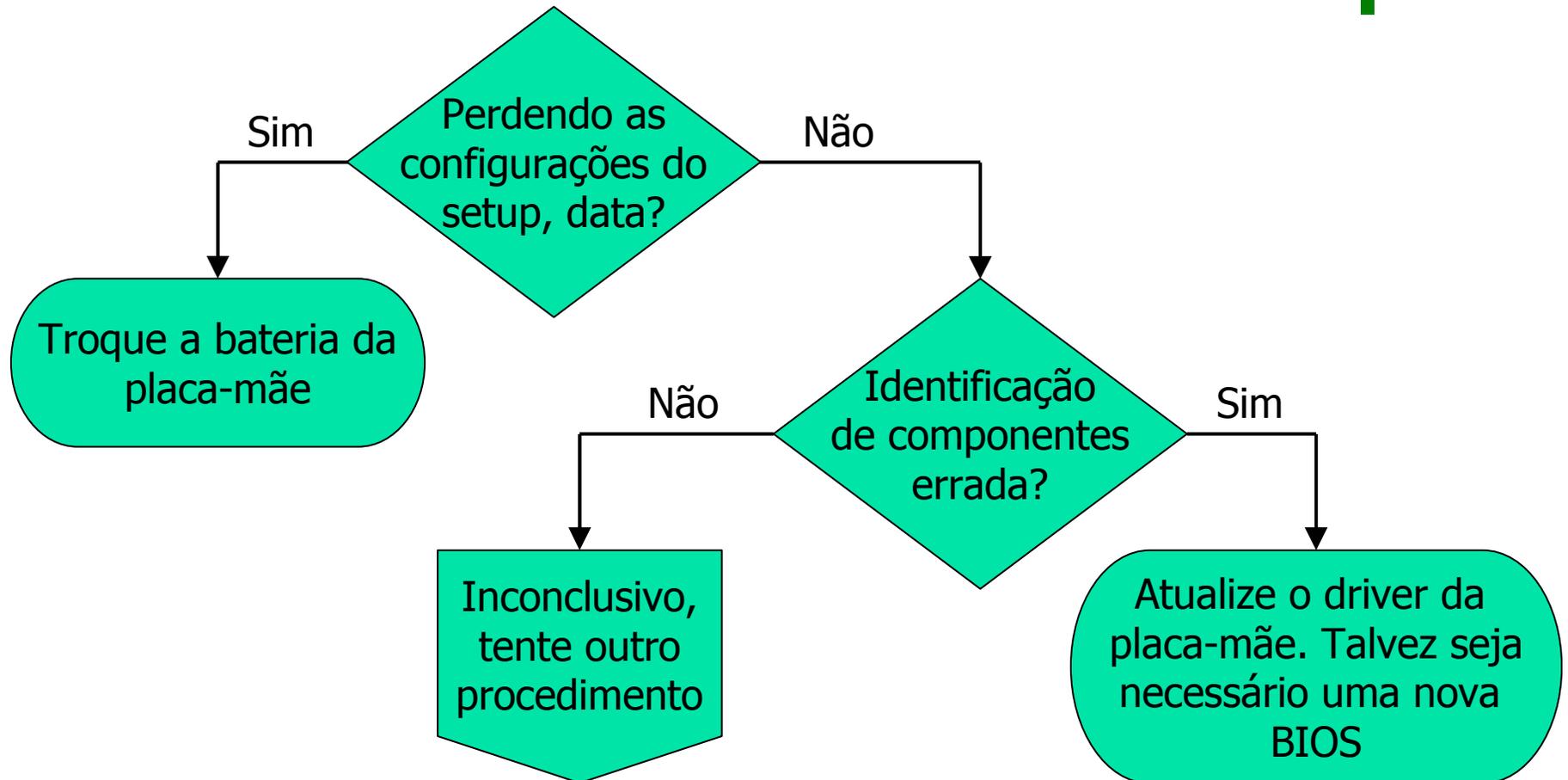
# Desempenho da MoBo, CPU e RAM



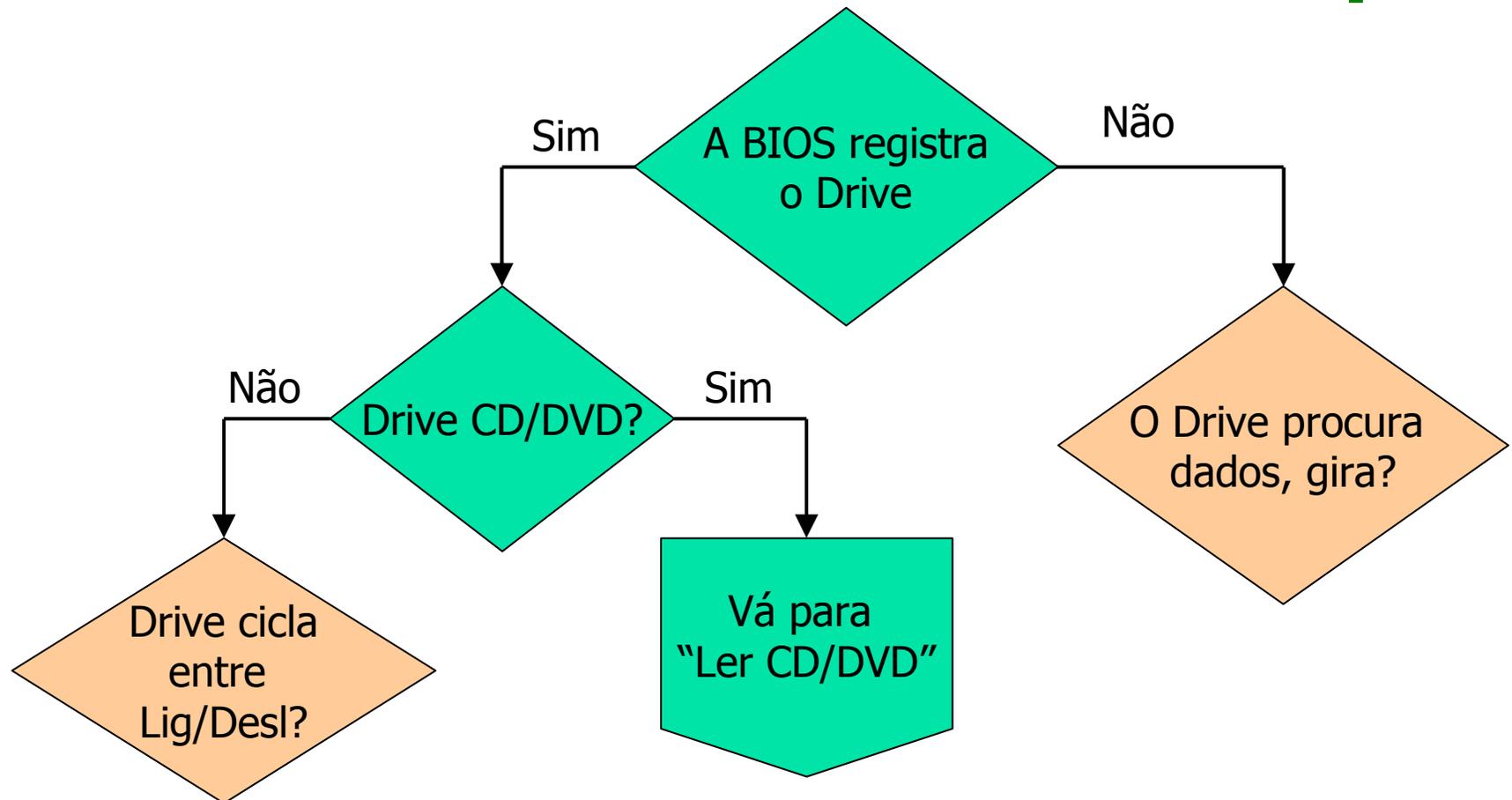
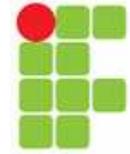
# Desempenho da MoBo, CPU e RAM



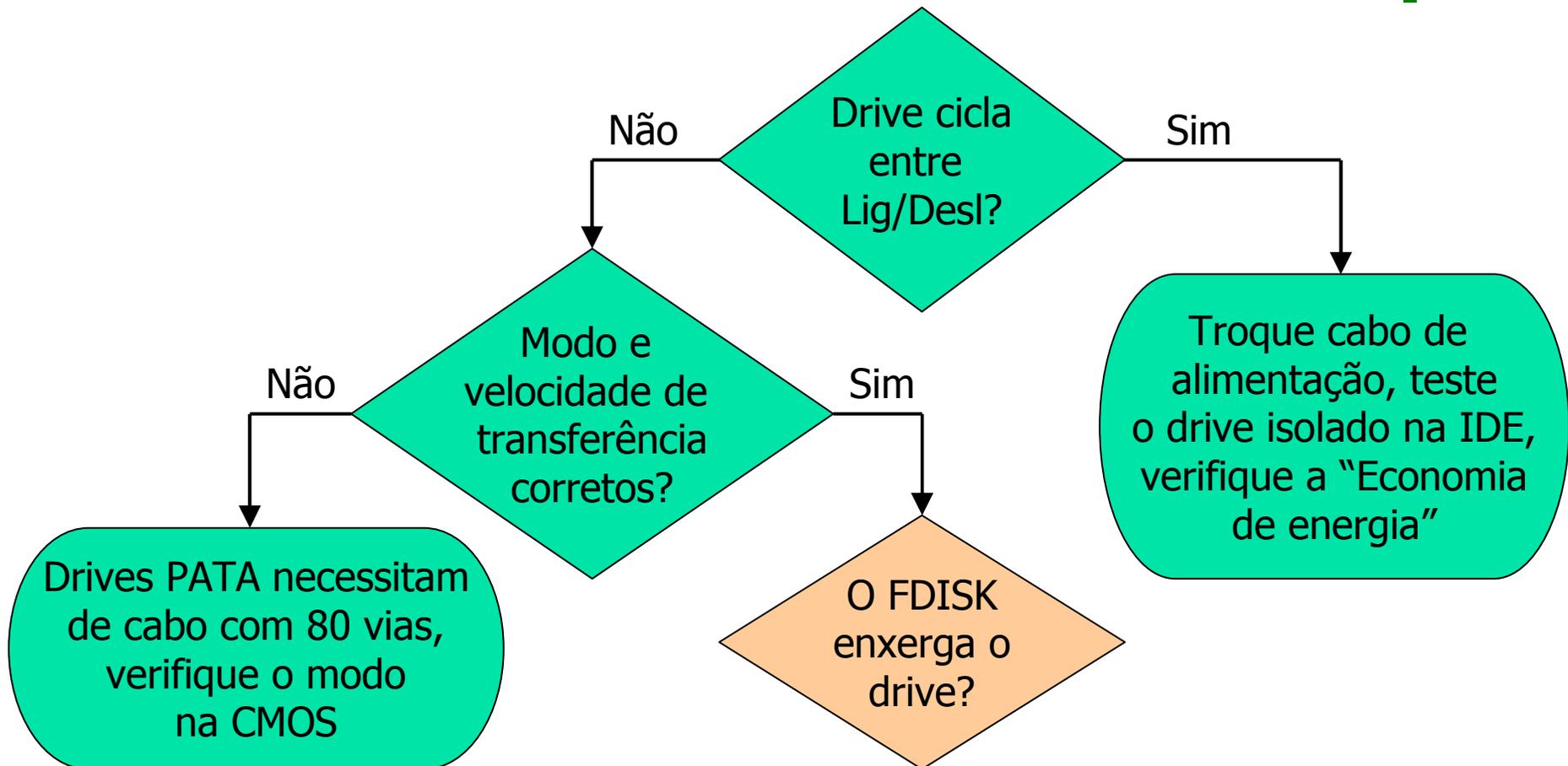
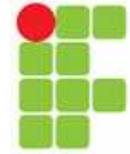
# Desempenho da MoBo, CPU e RAM



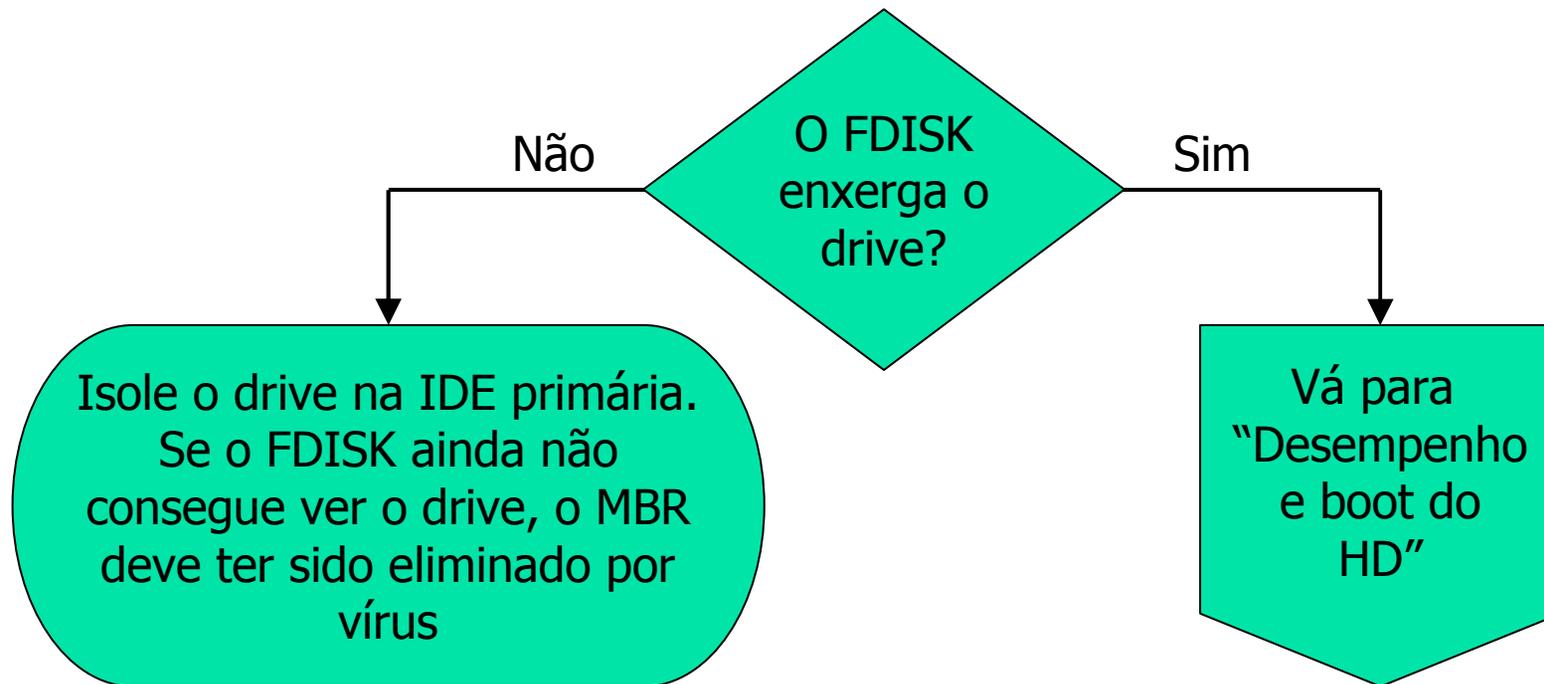
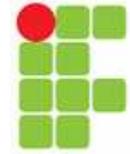
# Falha no Drive ATA



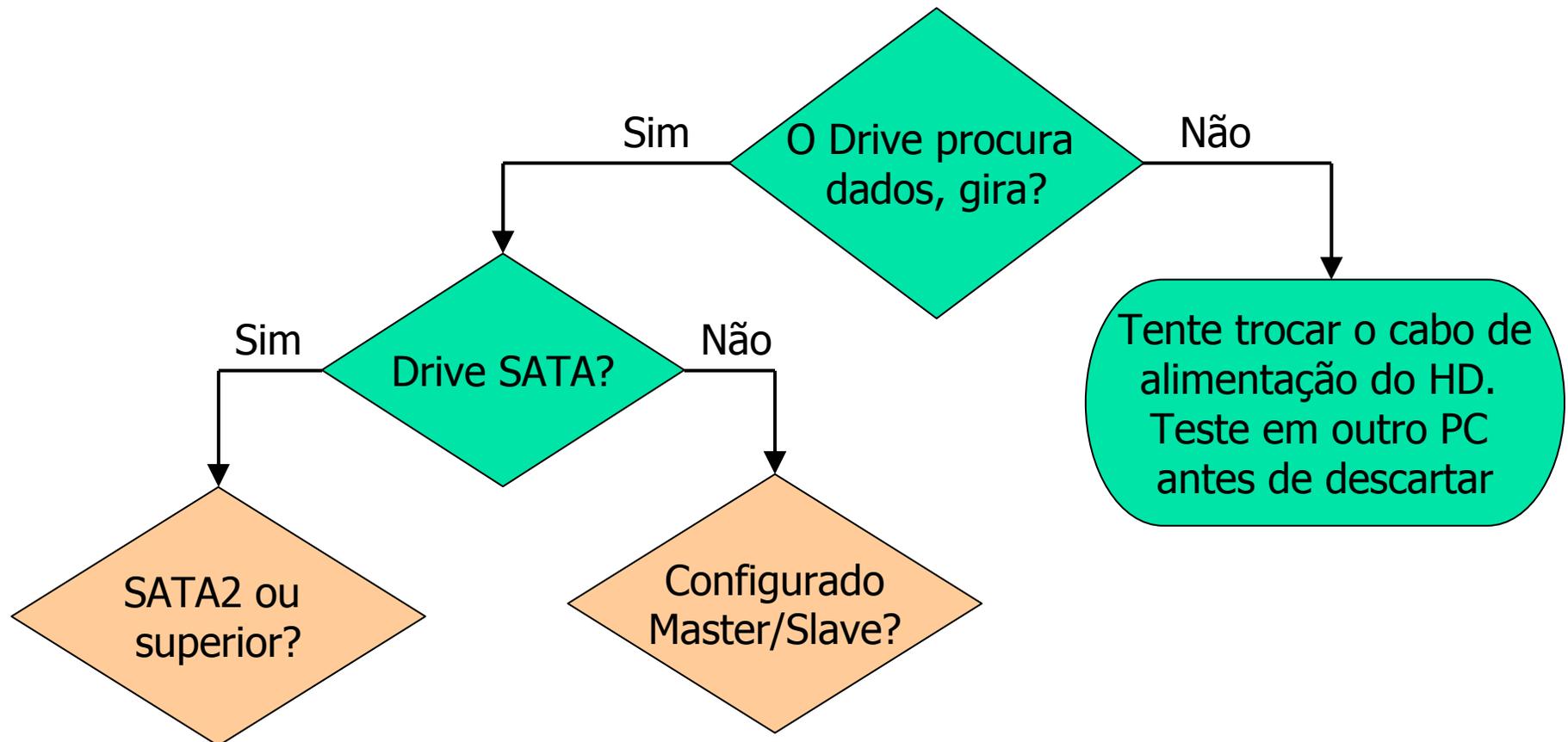
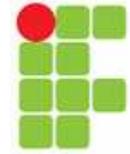
# Falha no Drive ATA



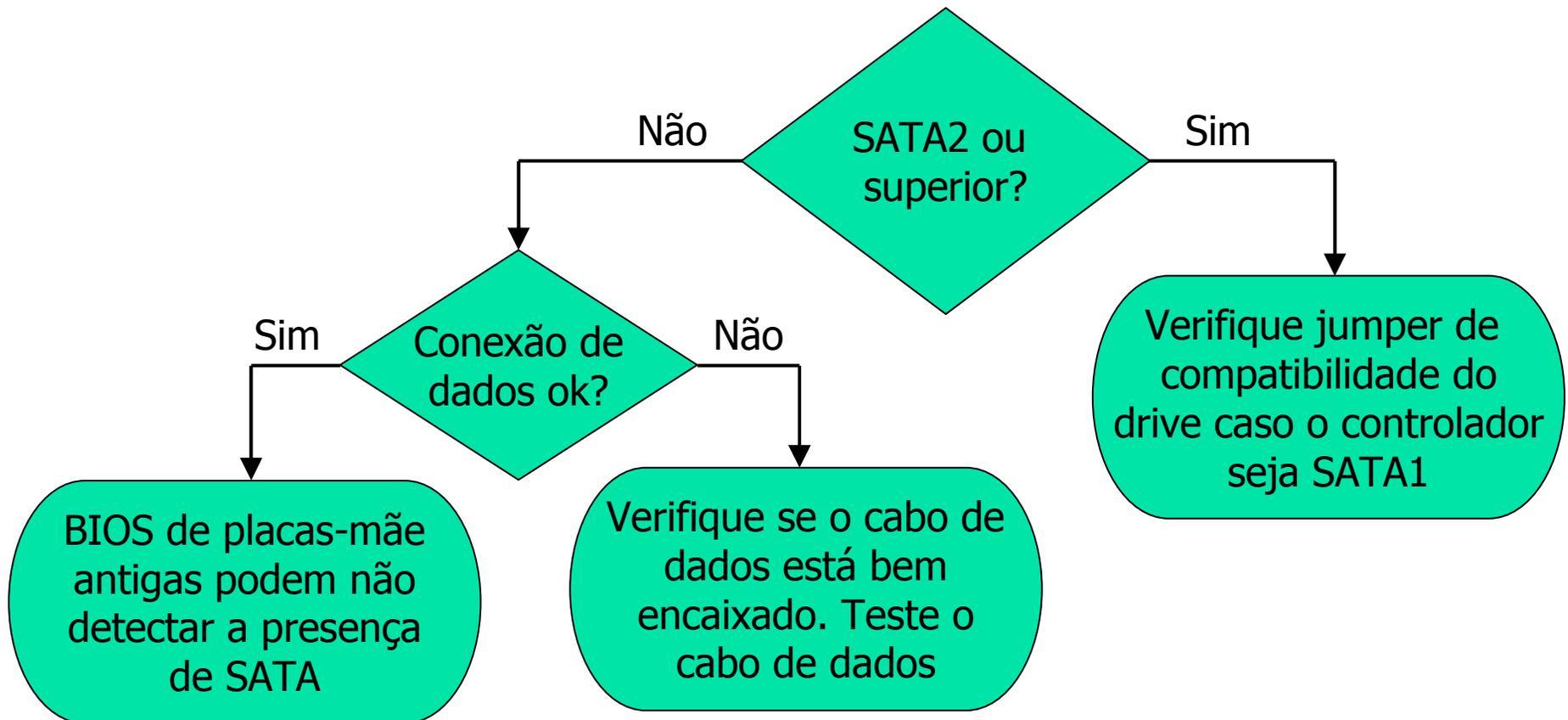
# Falha no Drive ATA



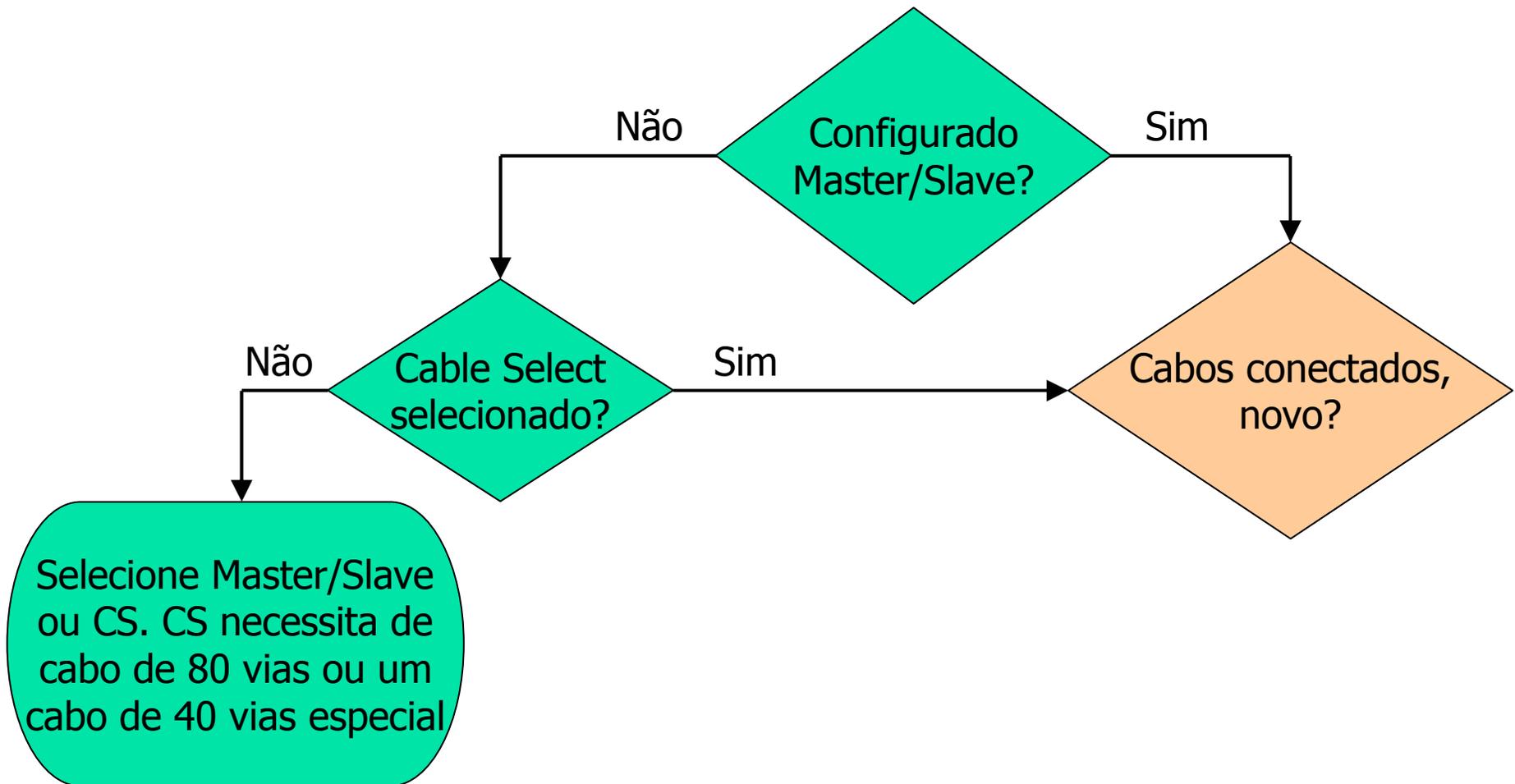
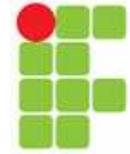
# Falha no Drive ATA



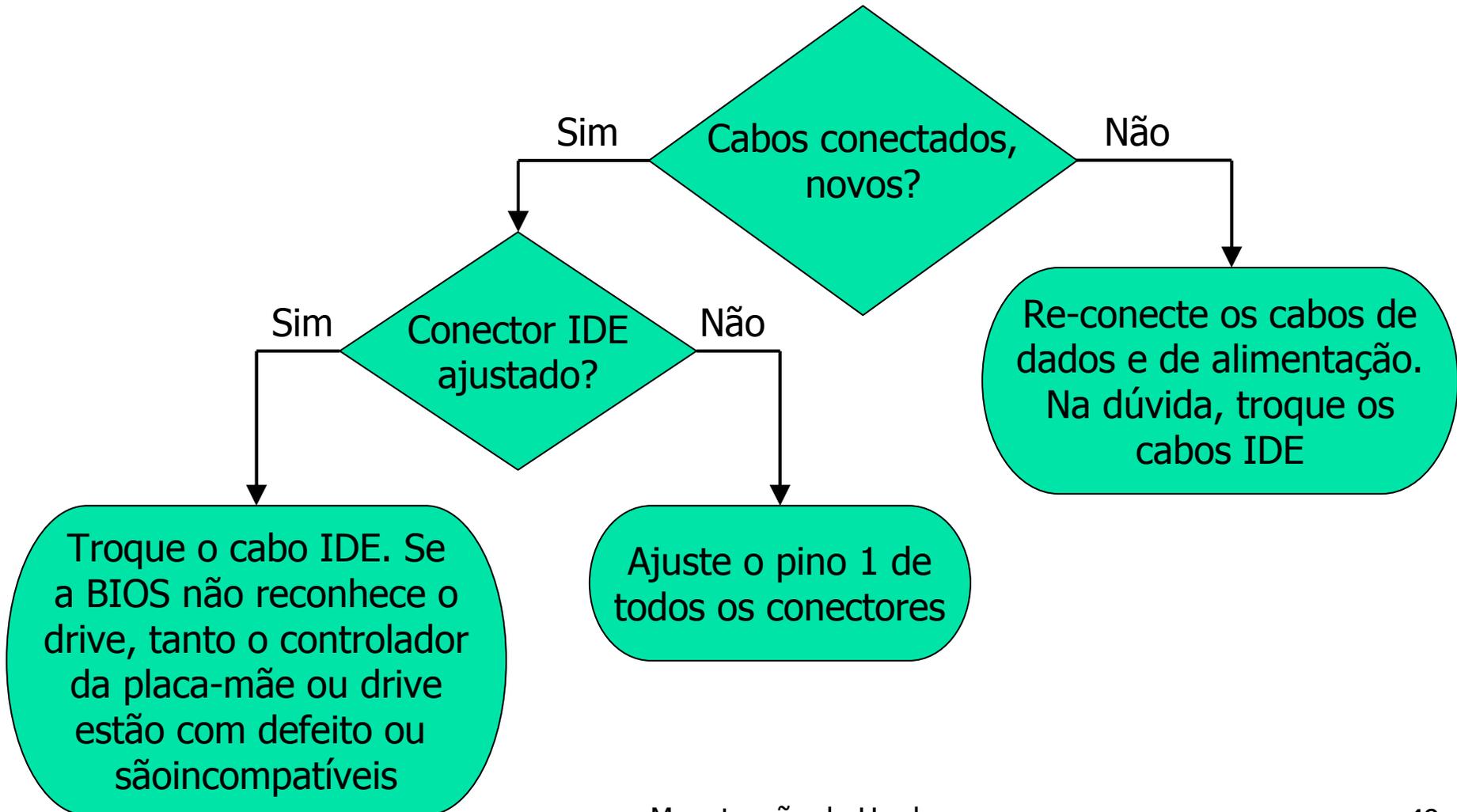
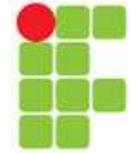
# Falha no Drive ATA



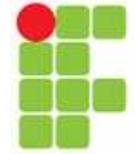
# Falha no Drive ATA



# Falha no Drive ATA

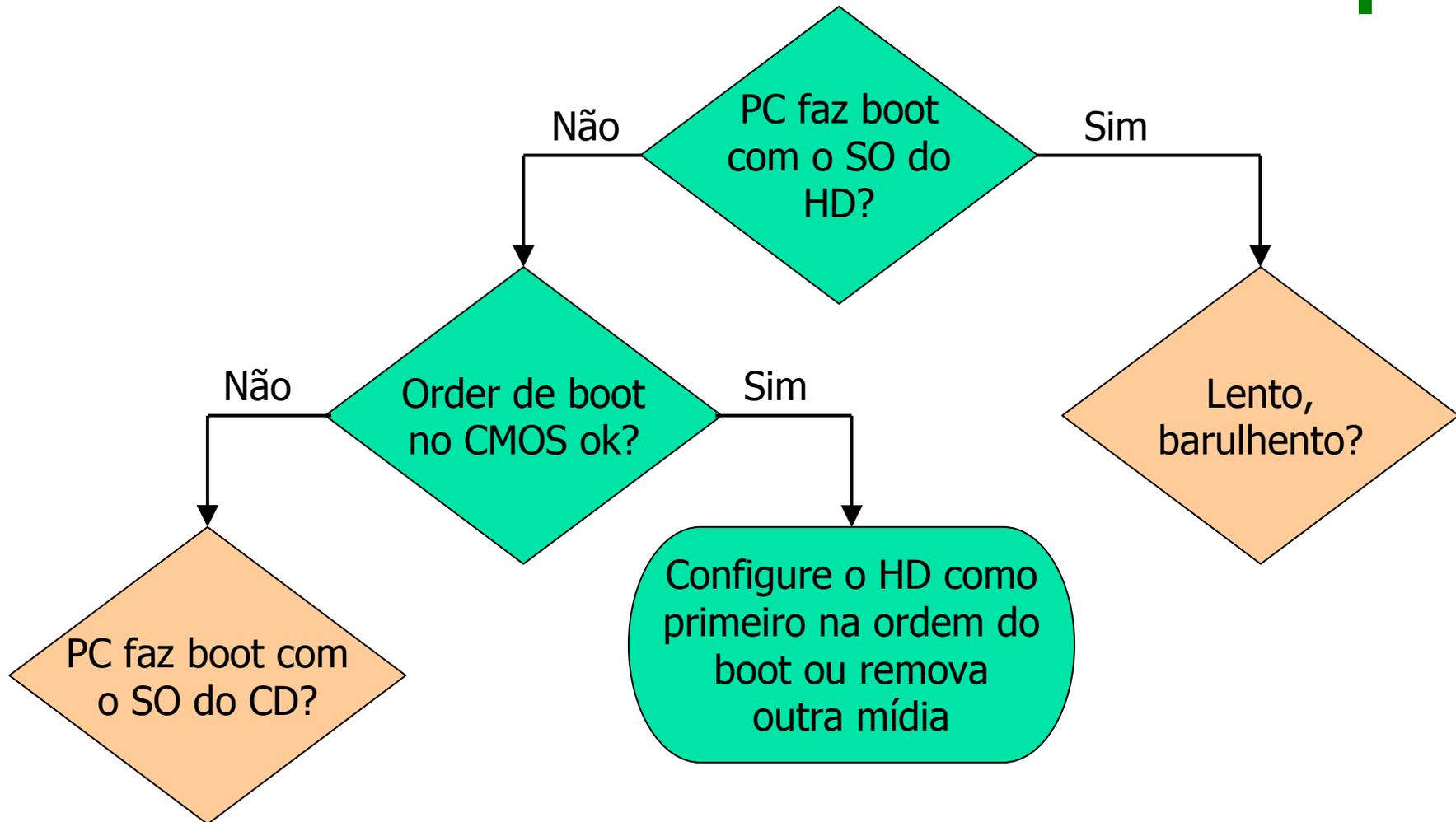
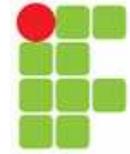


# Falha no Drive ATA

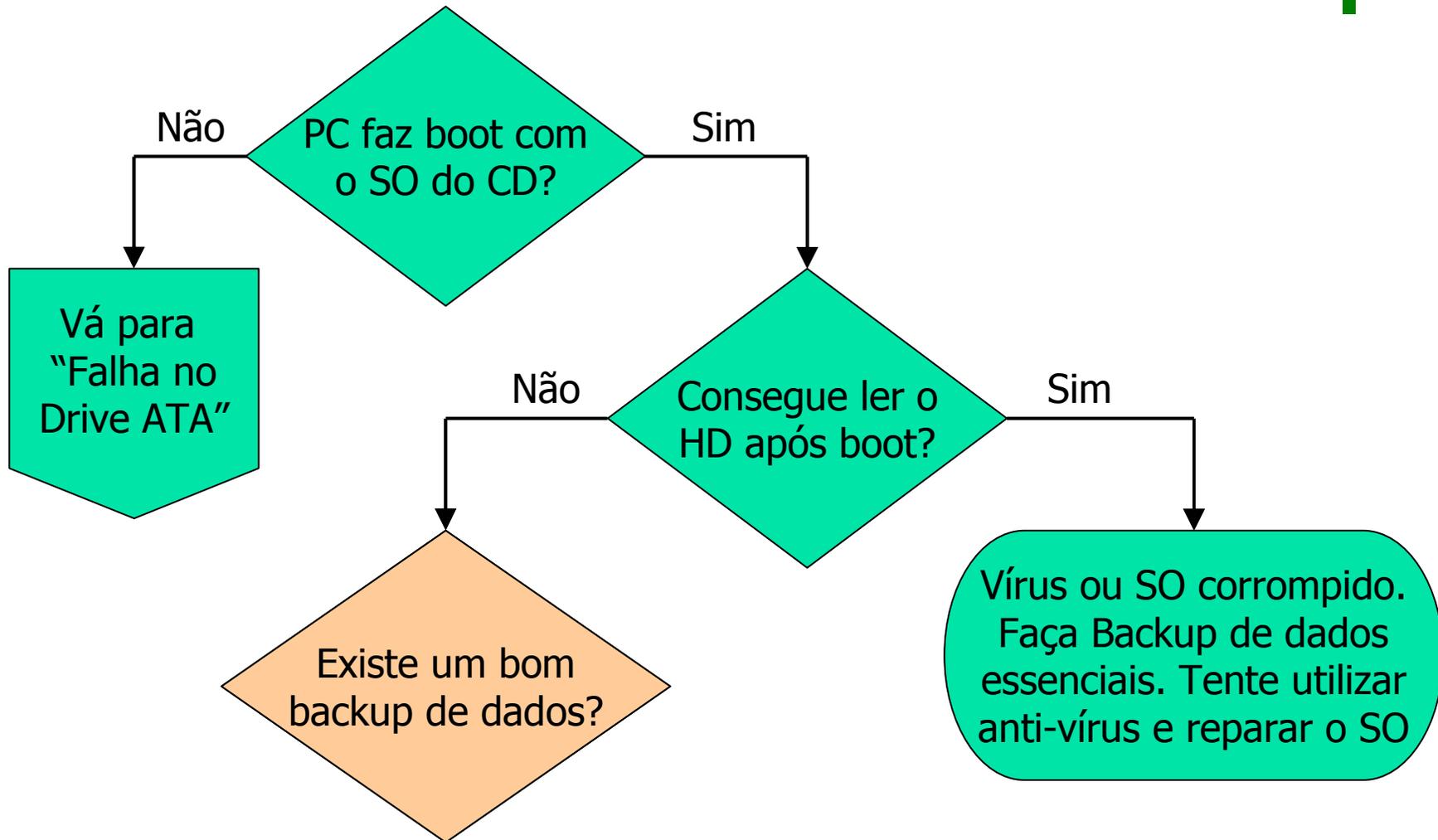


- Para verificar se o HD está girando, tente rotacionar. Haverá uma resistência à rotação devido ao efeito giroscópico. Teste com moderação.
- Cabo para Cable Select (CS):
  - 80 vias
  - Conector IDE da placa-mãe: Azul
  - Conector Slave: Cinza
  - Conector Master: Preto

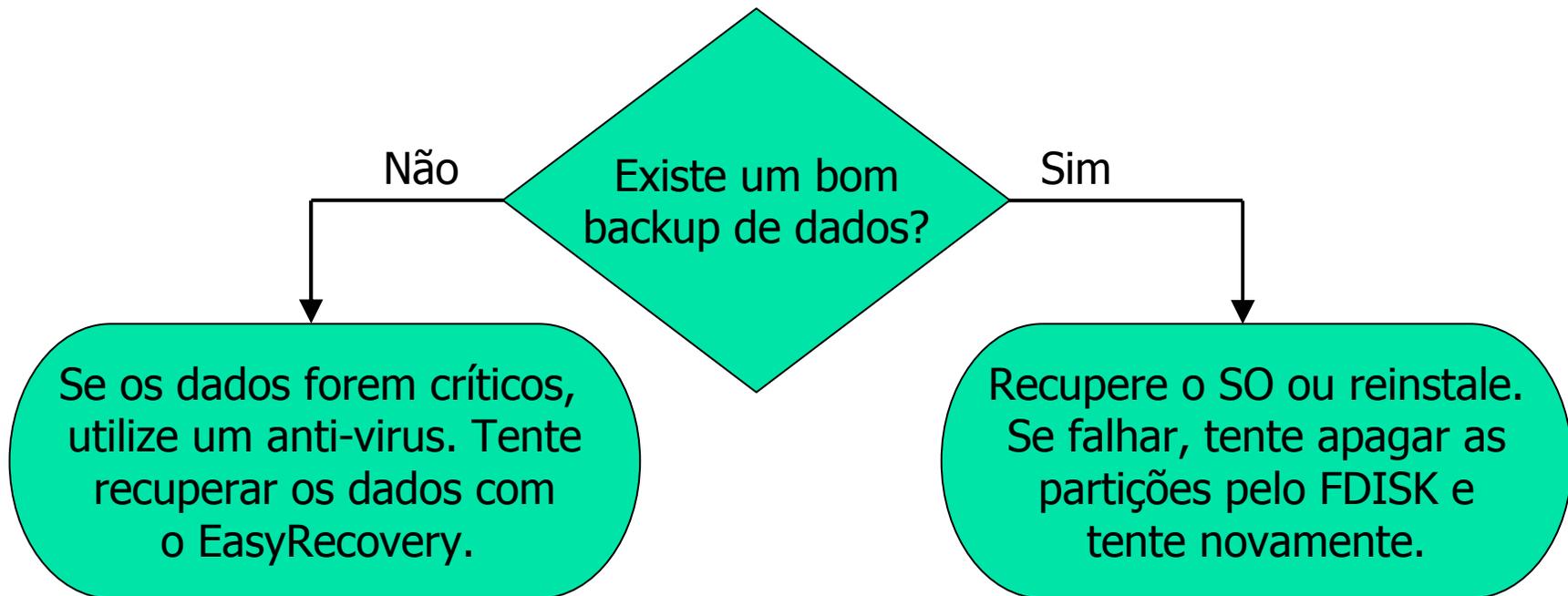
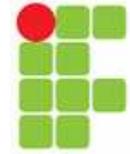
# Desempenho e Boot do HD



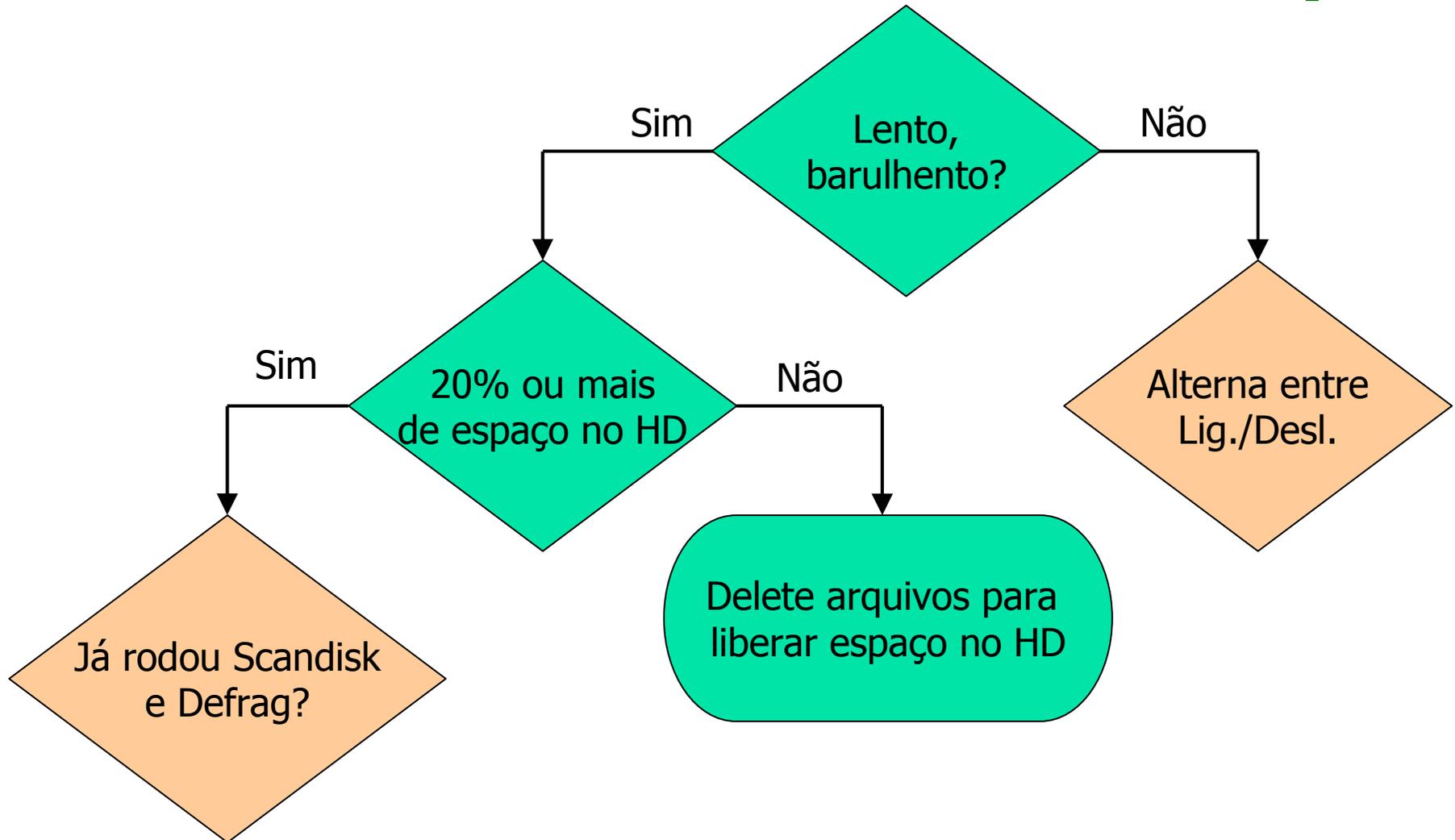
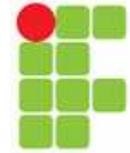
# Desempenho e Boot do HD



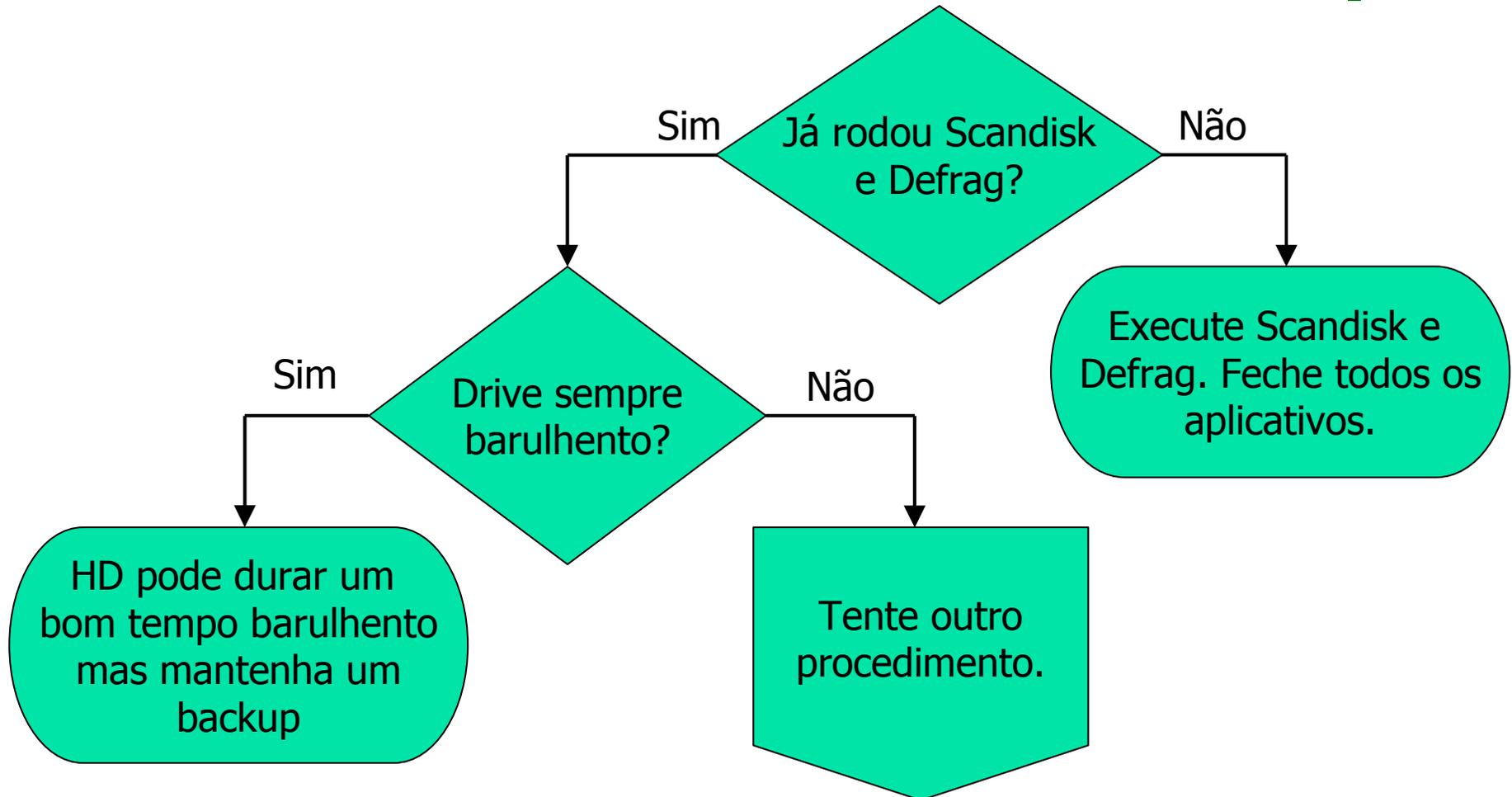
# Desempenho e Boot do HD



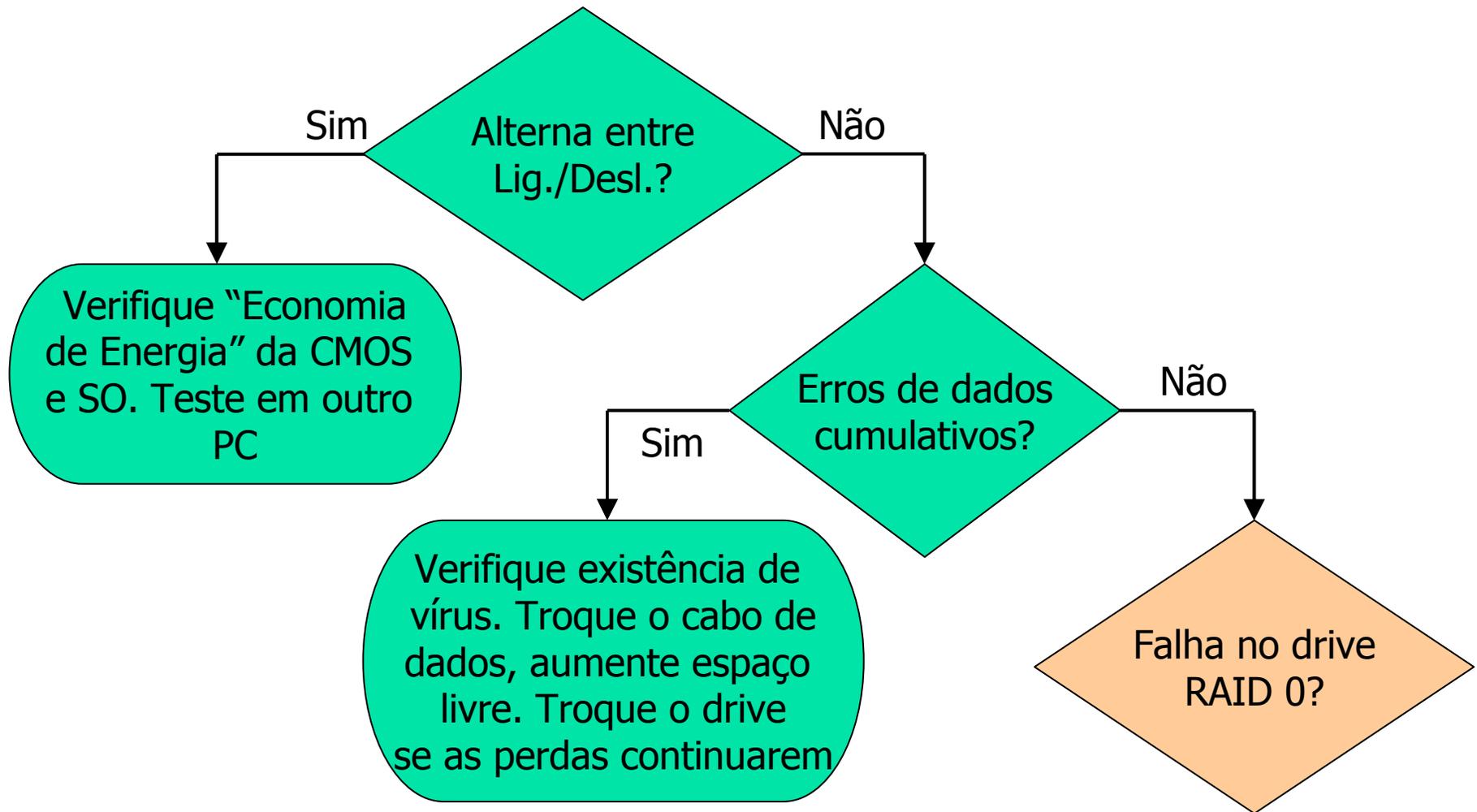
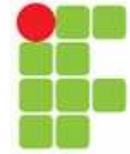
# Desempenho e Boot do HD



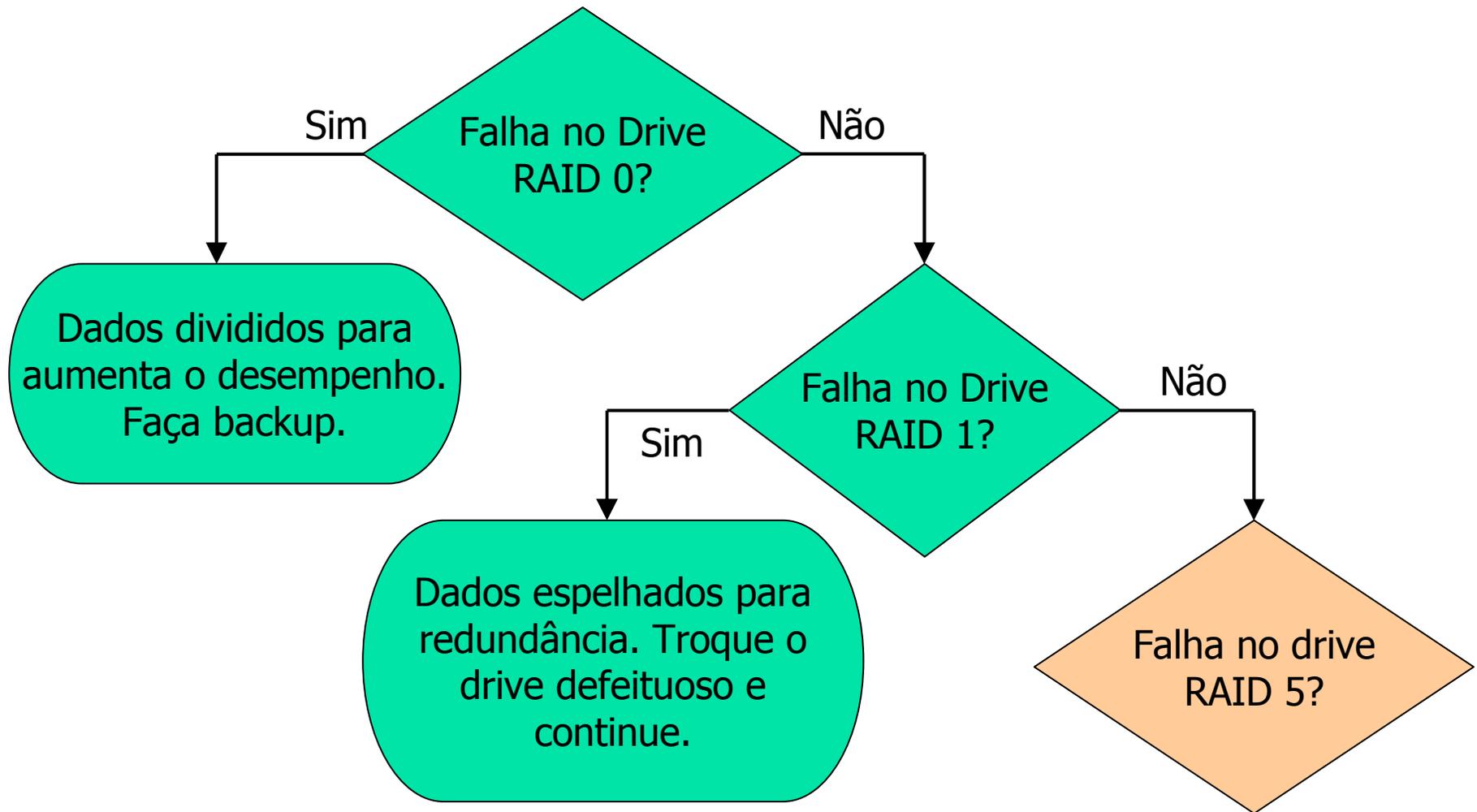
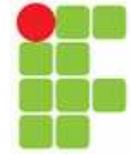
# Desempenho e Boot do HD



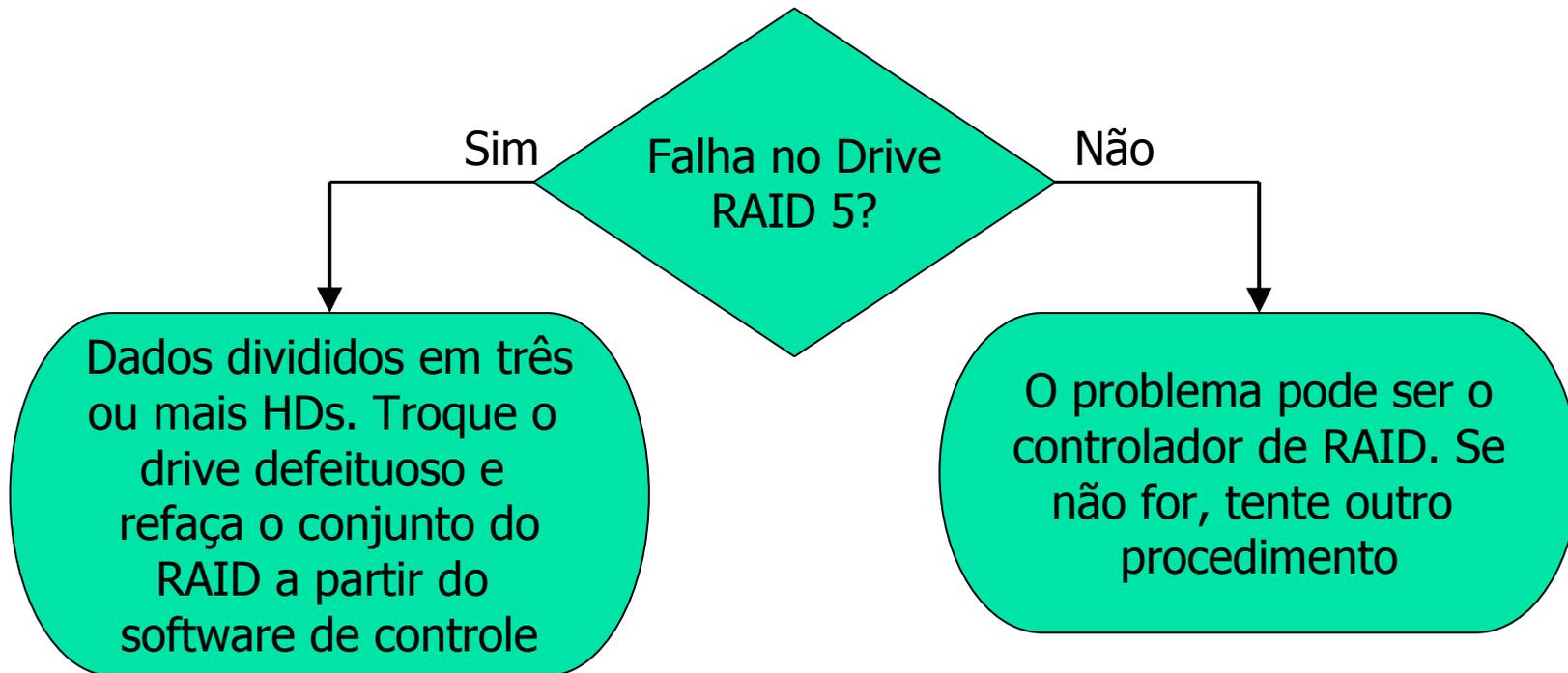
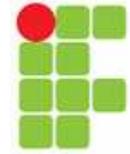
# Desempenho e Boot do HD



# Desempenho e Boot do HD



# Desempenho e Boot do HD

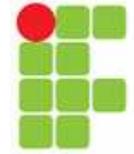


# Desempenho e Boot do HD



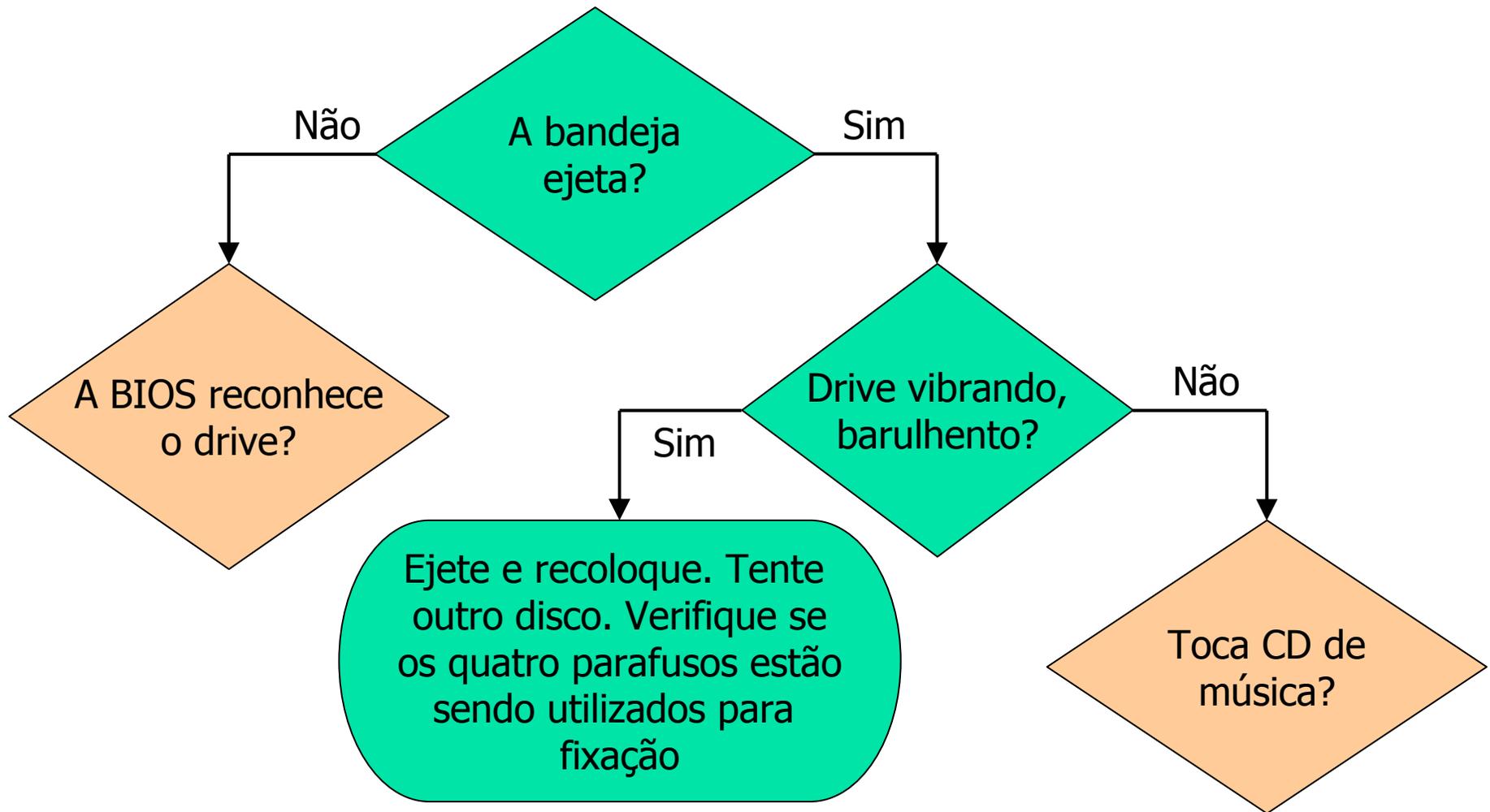
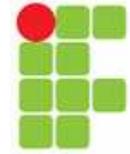
- Quando não conseguir fazer o boot pelo HD, é indicado fazer o boot pelo CD e rodar o Scandisk.
- Quando o PC não consegue fazer o boot pelo CD, o drive de CD pode estar demorando para girar fazendo com que a BIOS apresente "Time Out".
- Pode ser que o PC esteja lento não por causa do HD. Use um software de Benchmarking para descobrir onde está o gargalo do sistema.

# Desempenho e Boot do HD

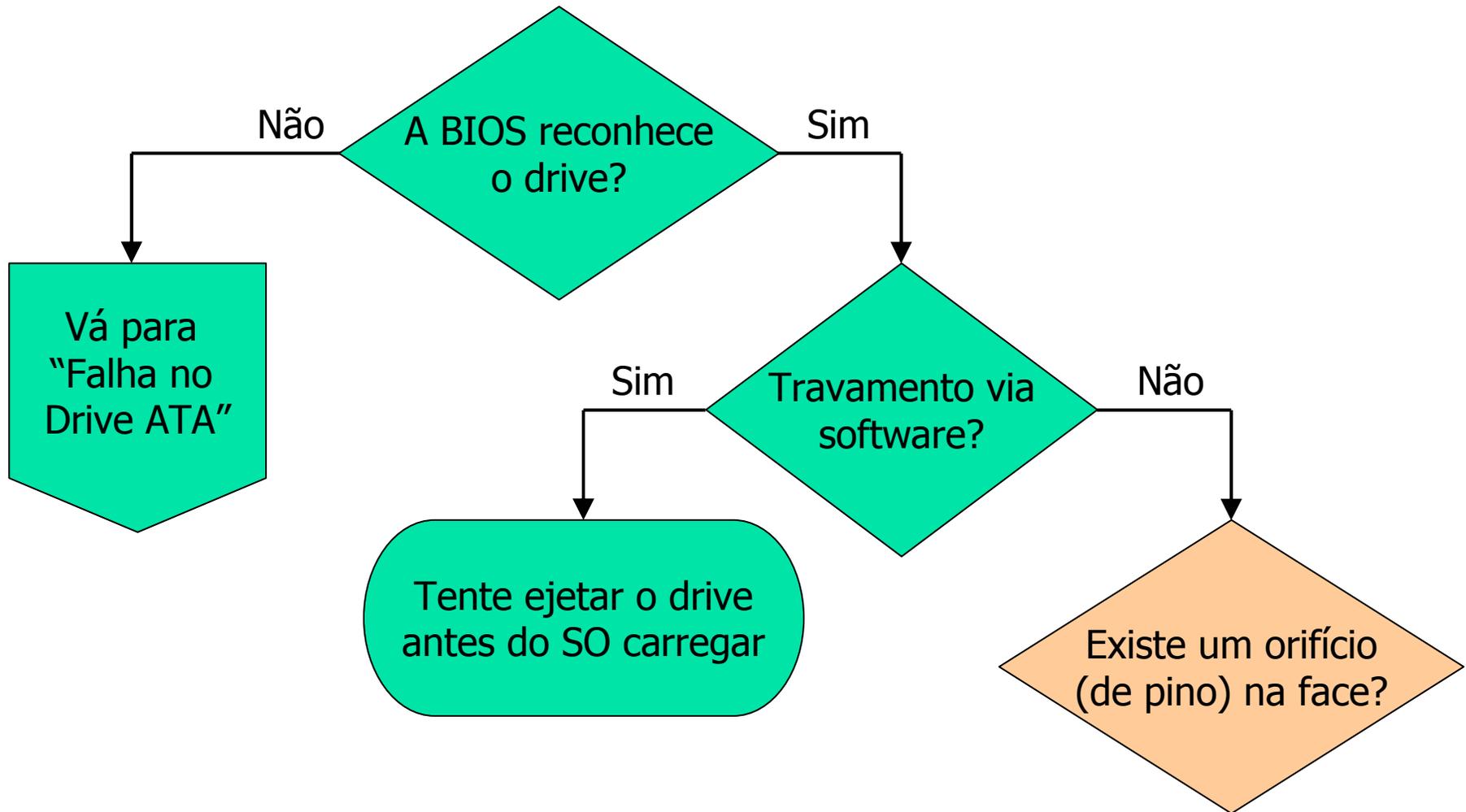
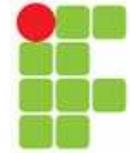


- Uma boa prática é fazer o Defrag do HD:
  - Se apresentar problemas, tente primeiro rodar o Scandisk.
  - Se o Scandisk não funcionar, certifique-se de não estar utilizando outro programa, use o Ctrl+AltDel.
  - Se ainda não funcionar, Reinicie o PC em modo seguro e tente novamente.
  - Se o Scandisk falhar, faça Backup do HD e reformate.

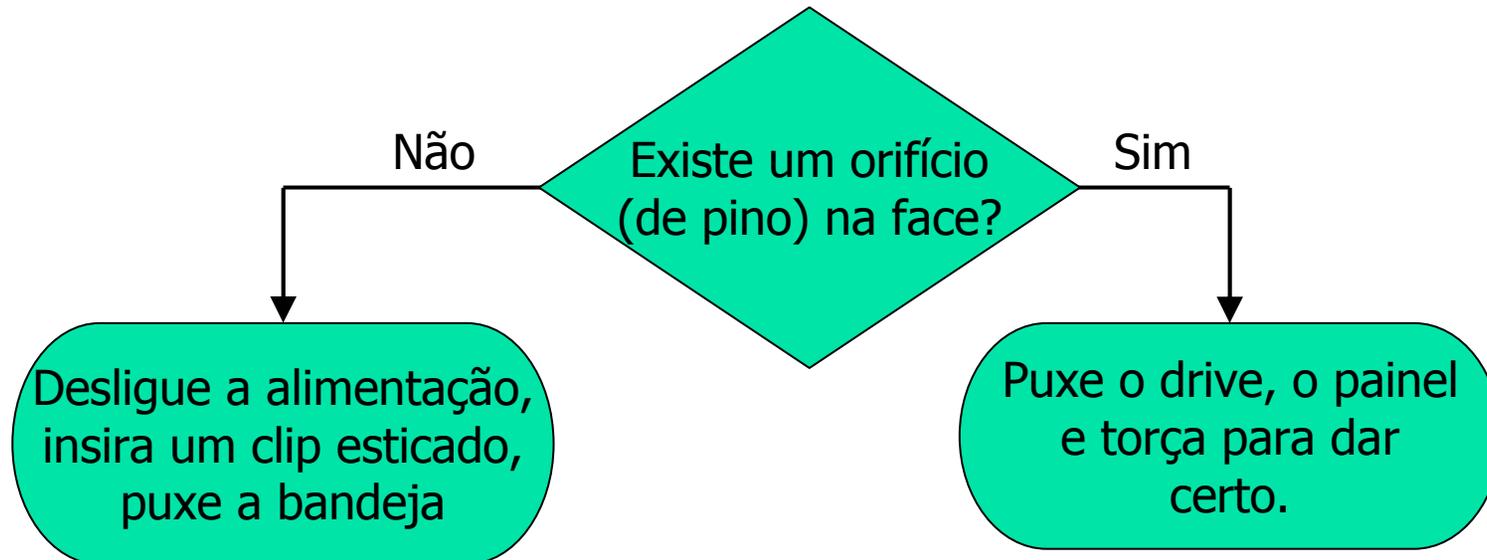
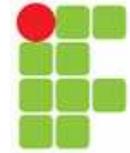
# Leitura CD ou DVD



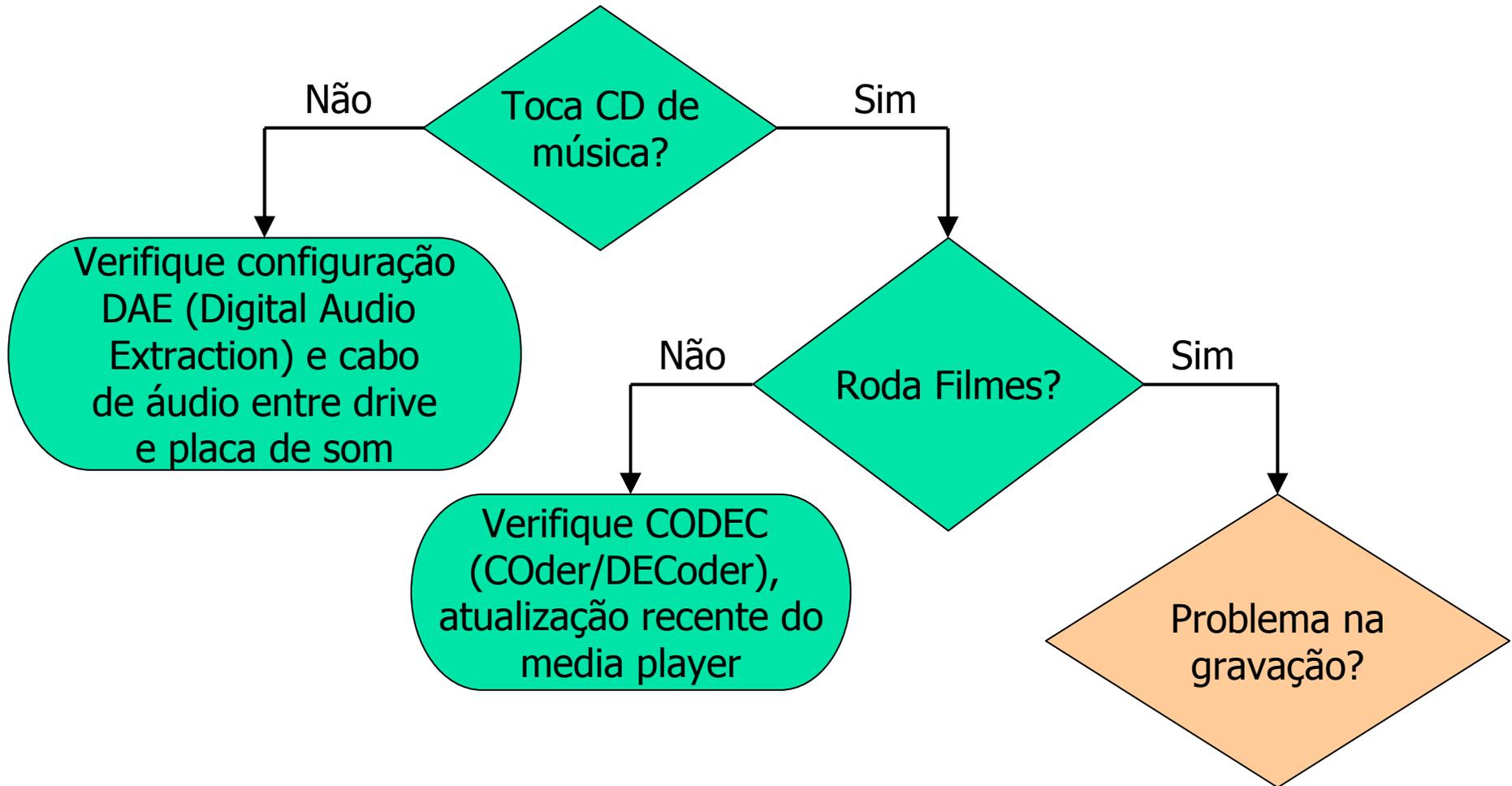
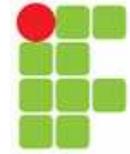
# Leitura CD ou DVD



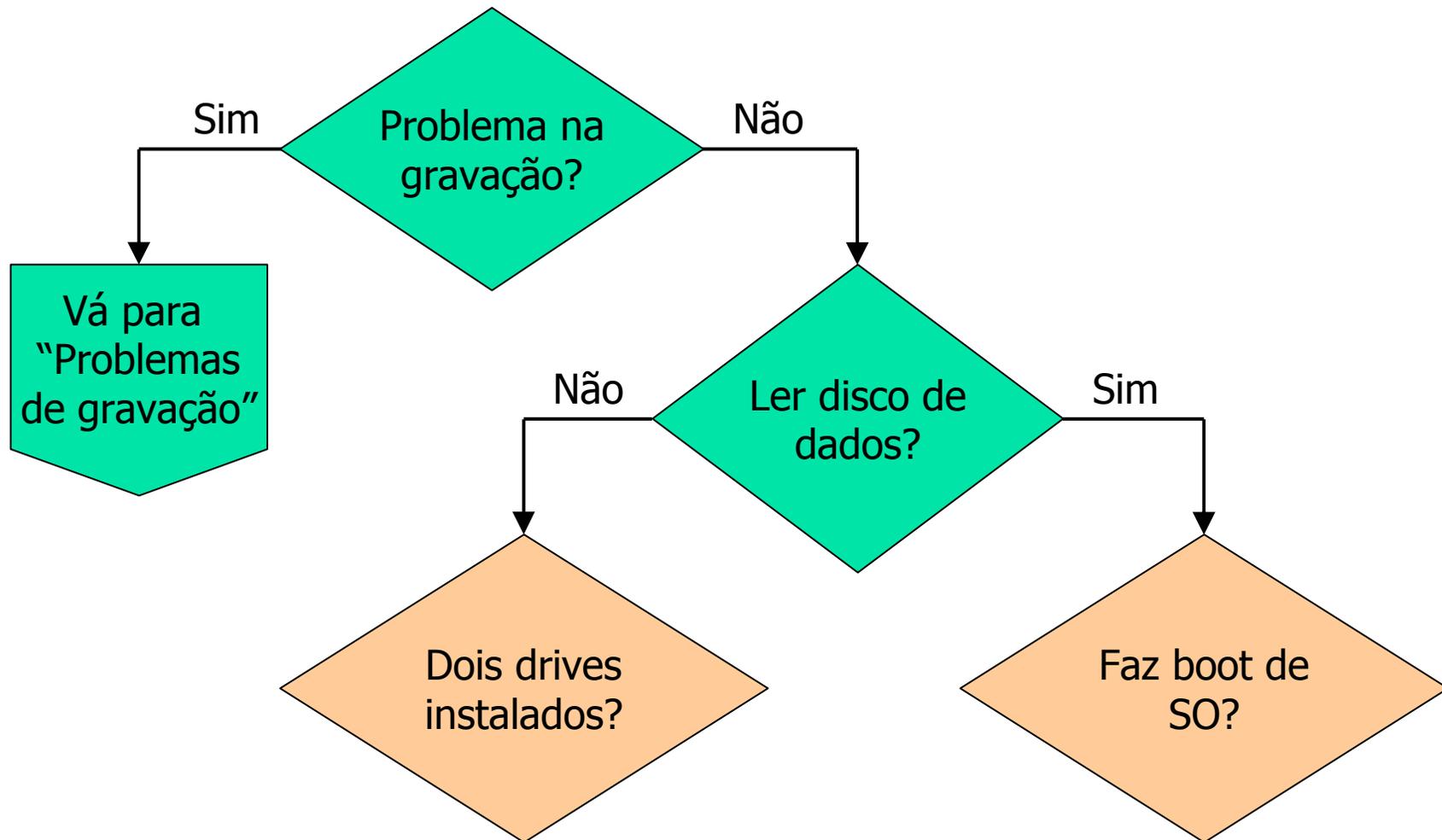
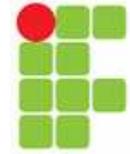
# Leitura CD ou DVD



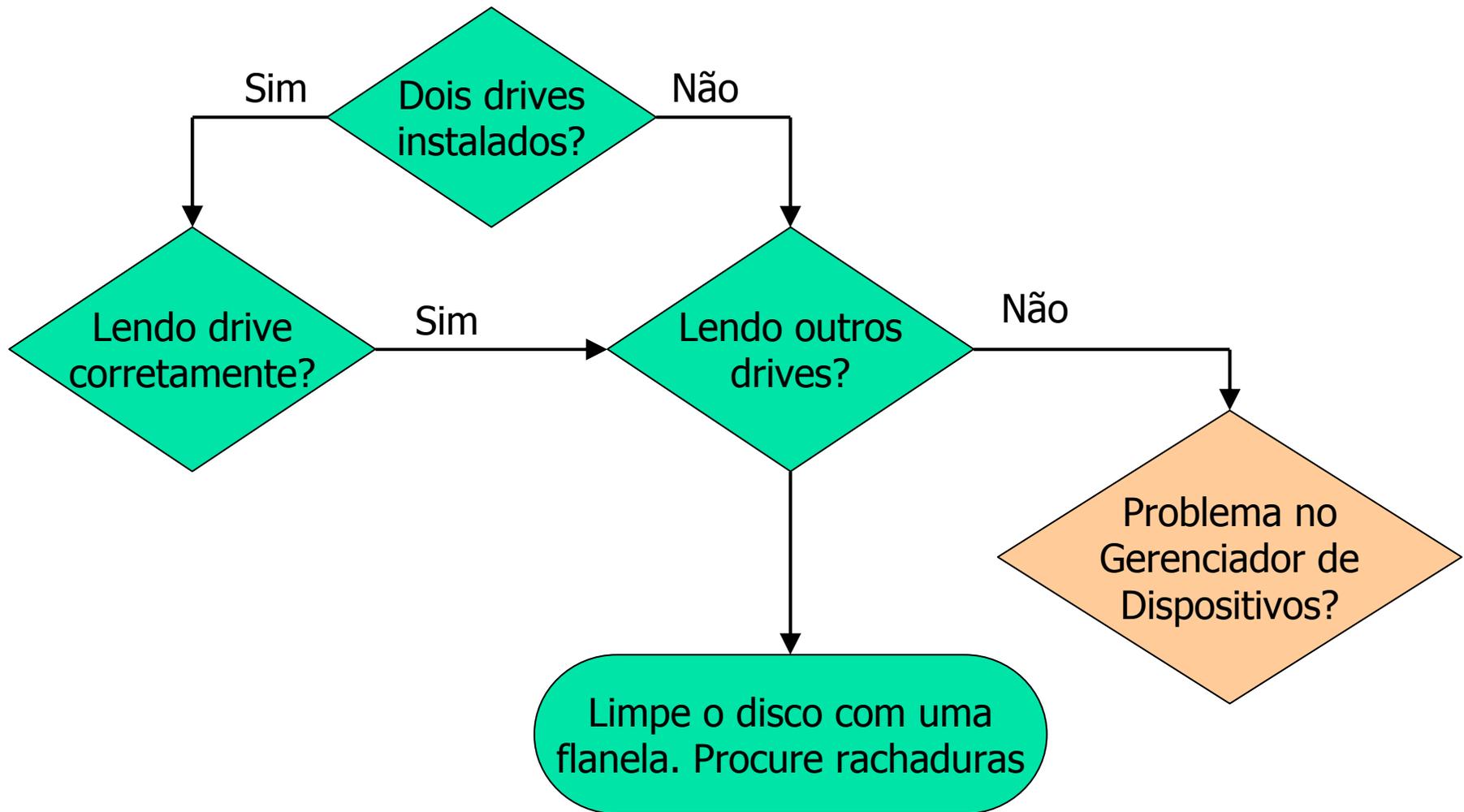
# Leitura CD ou DVD



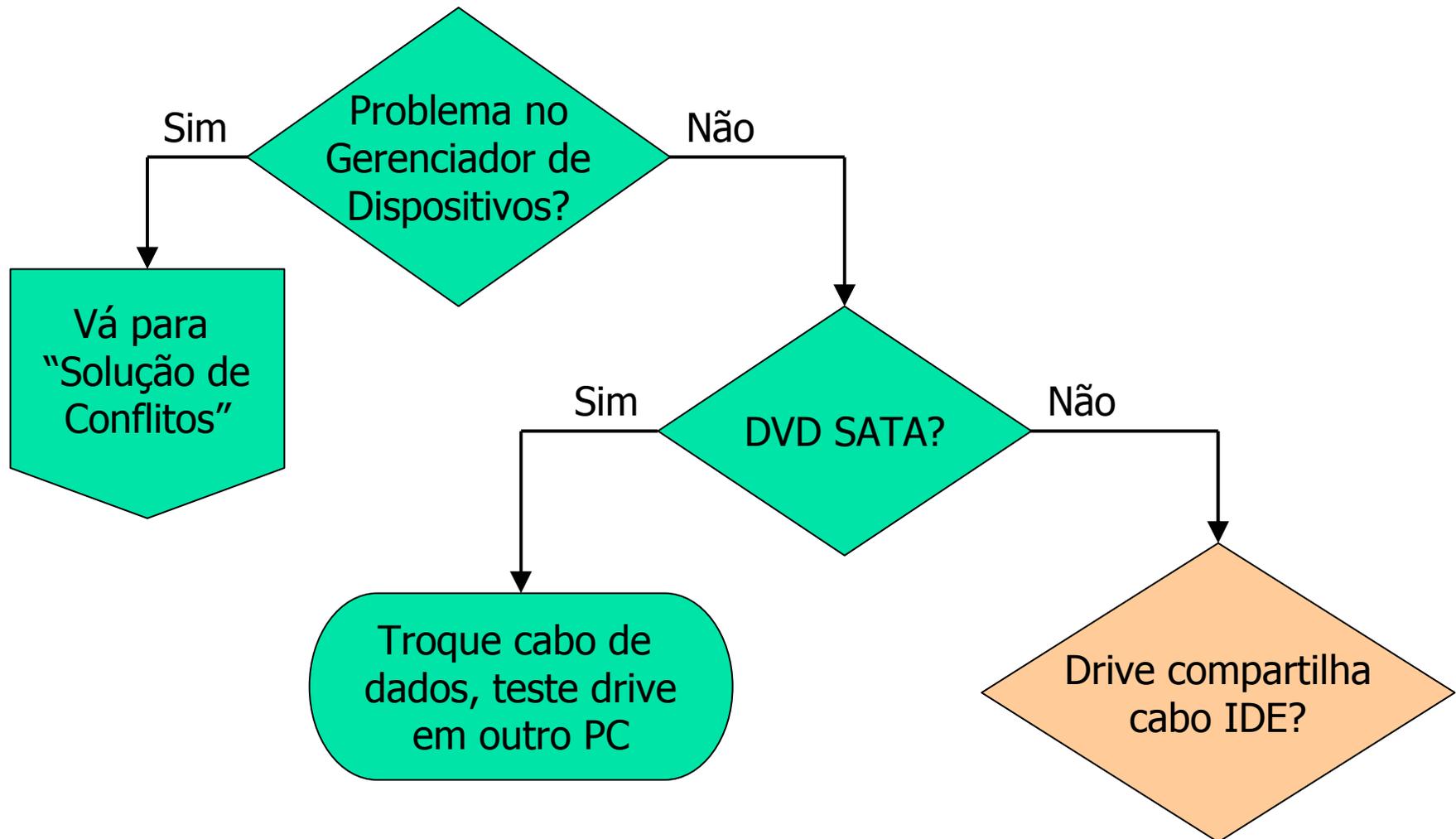
# Leitura CD ou DVD



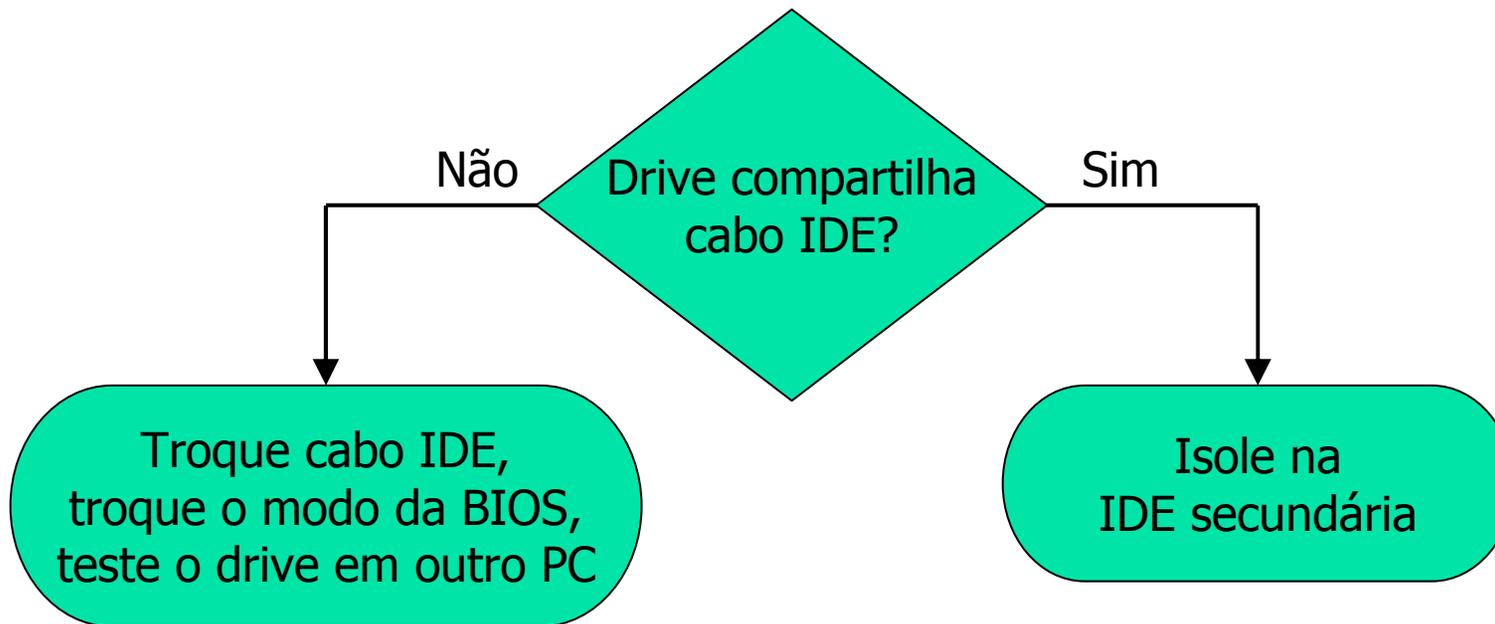
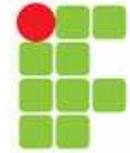
# Leitura CD ou DVD



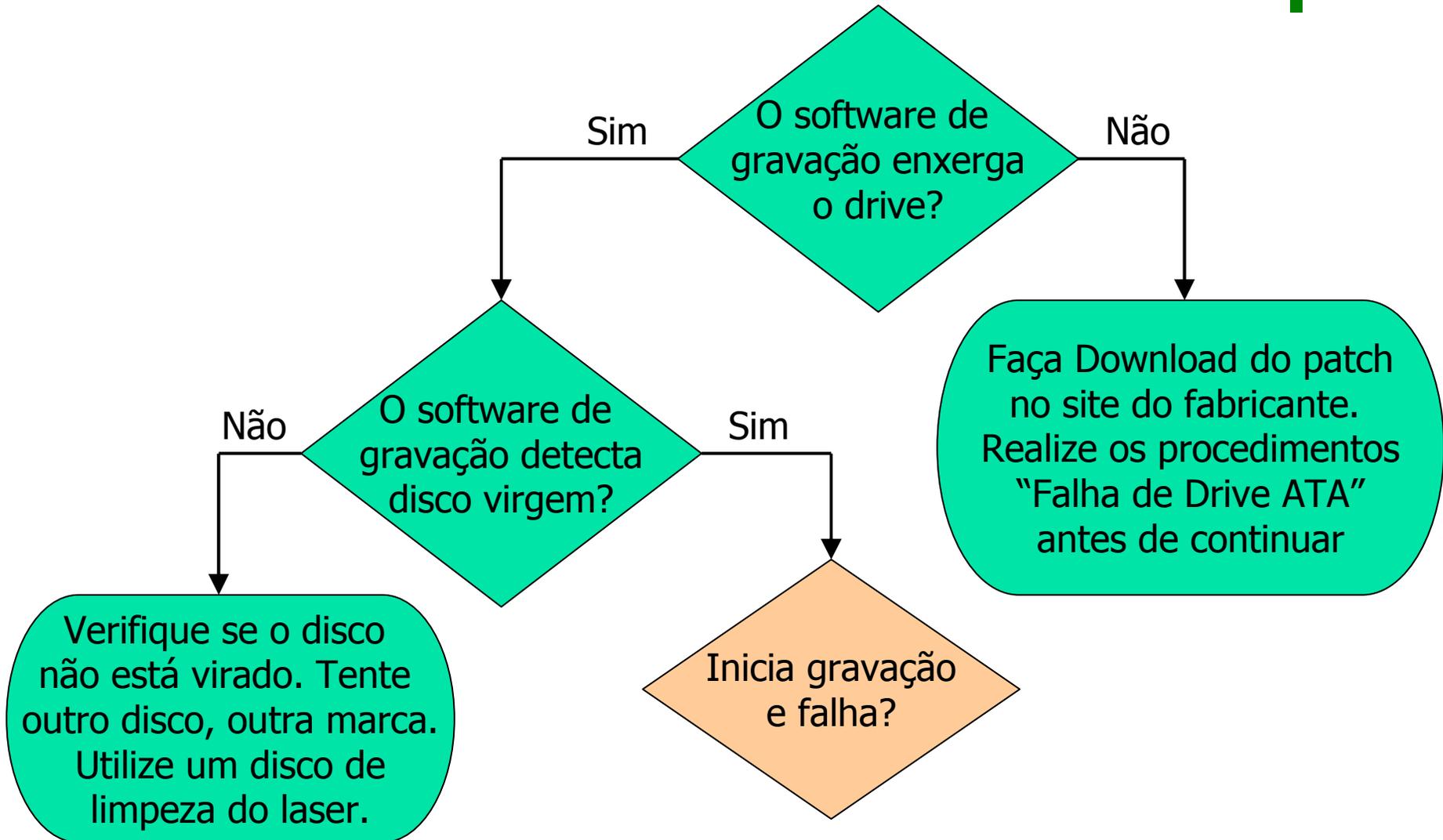
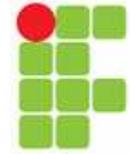
# Leitura CD ou DVD



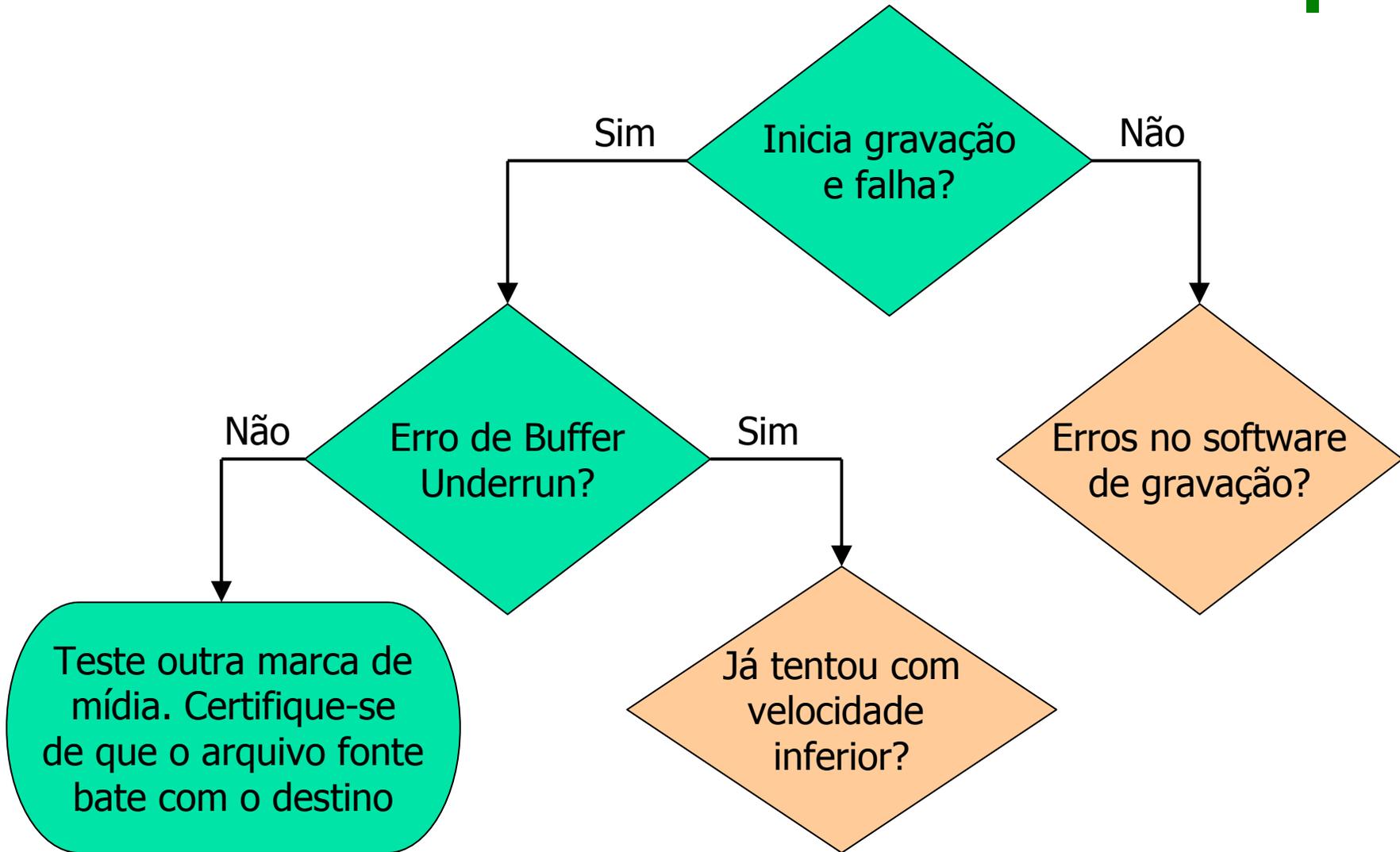
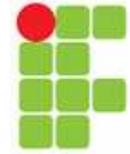
# Leitura CD ou DVD



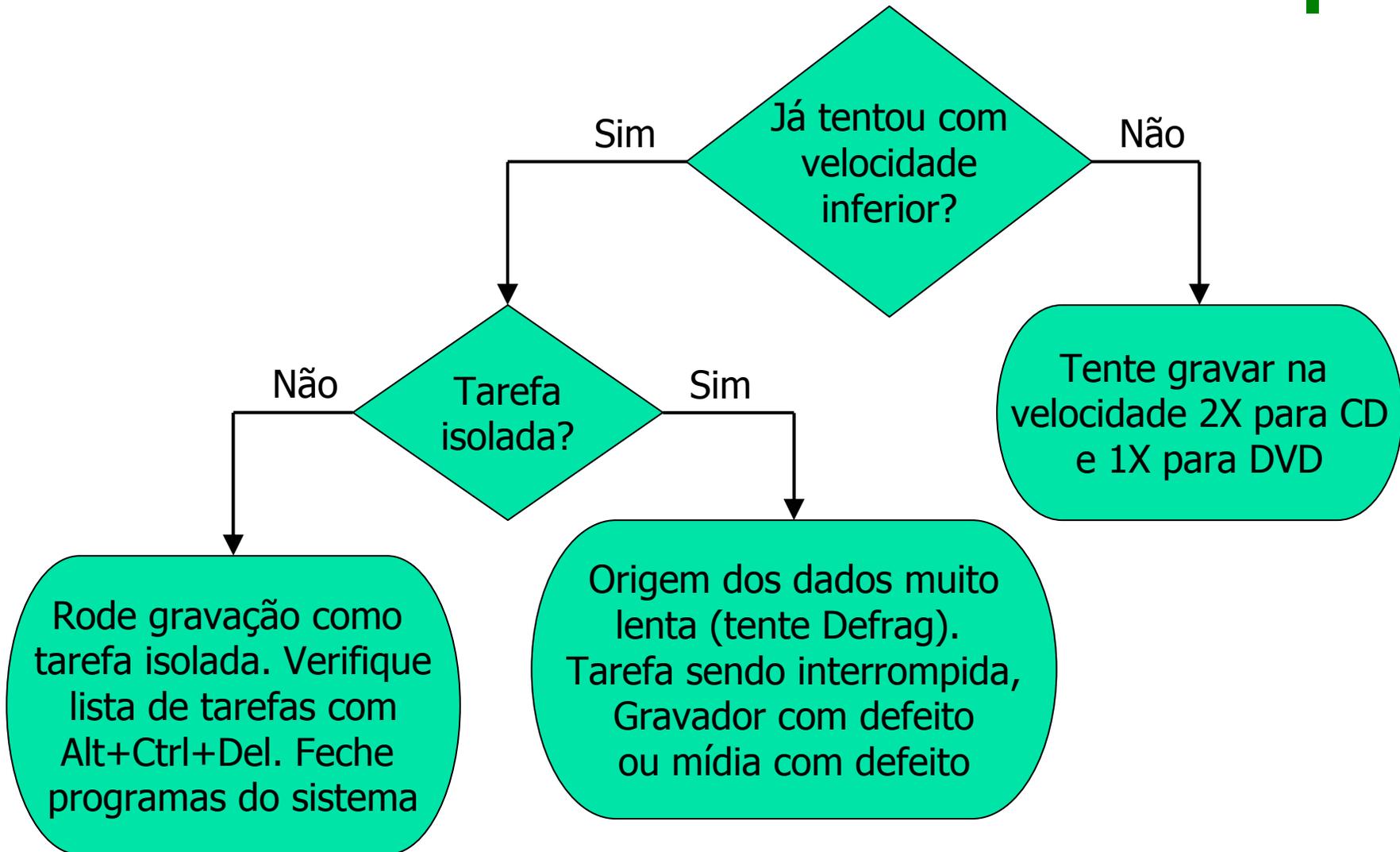
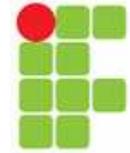
# Problema ao gravar CD, DVD e Blu-Ray



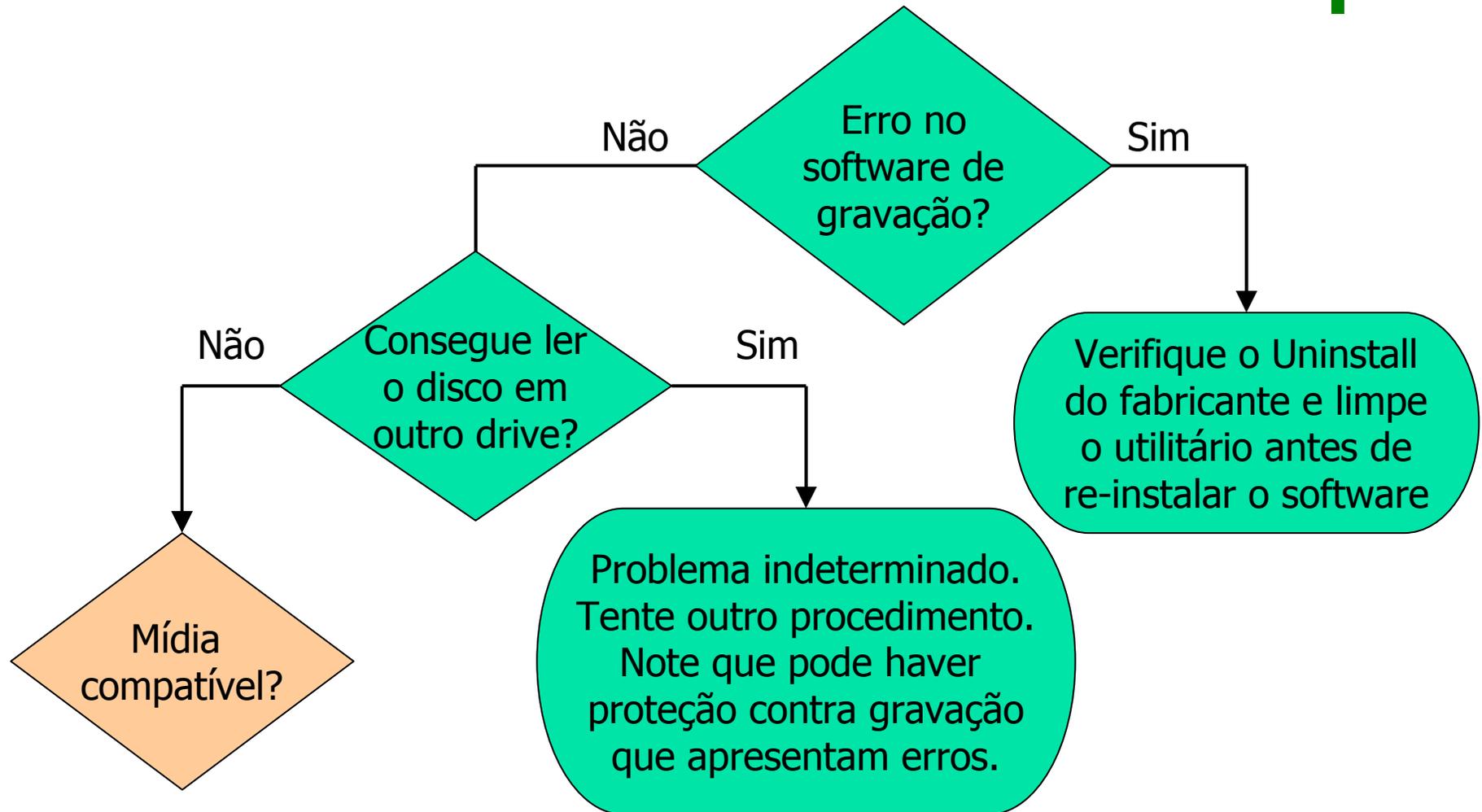
# Problema ao gravar CD, DVD e Blu-Ray



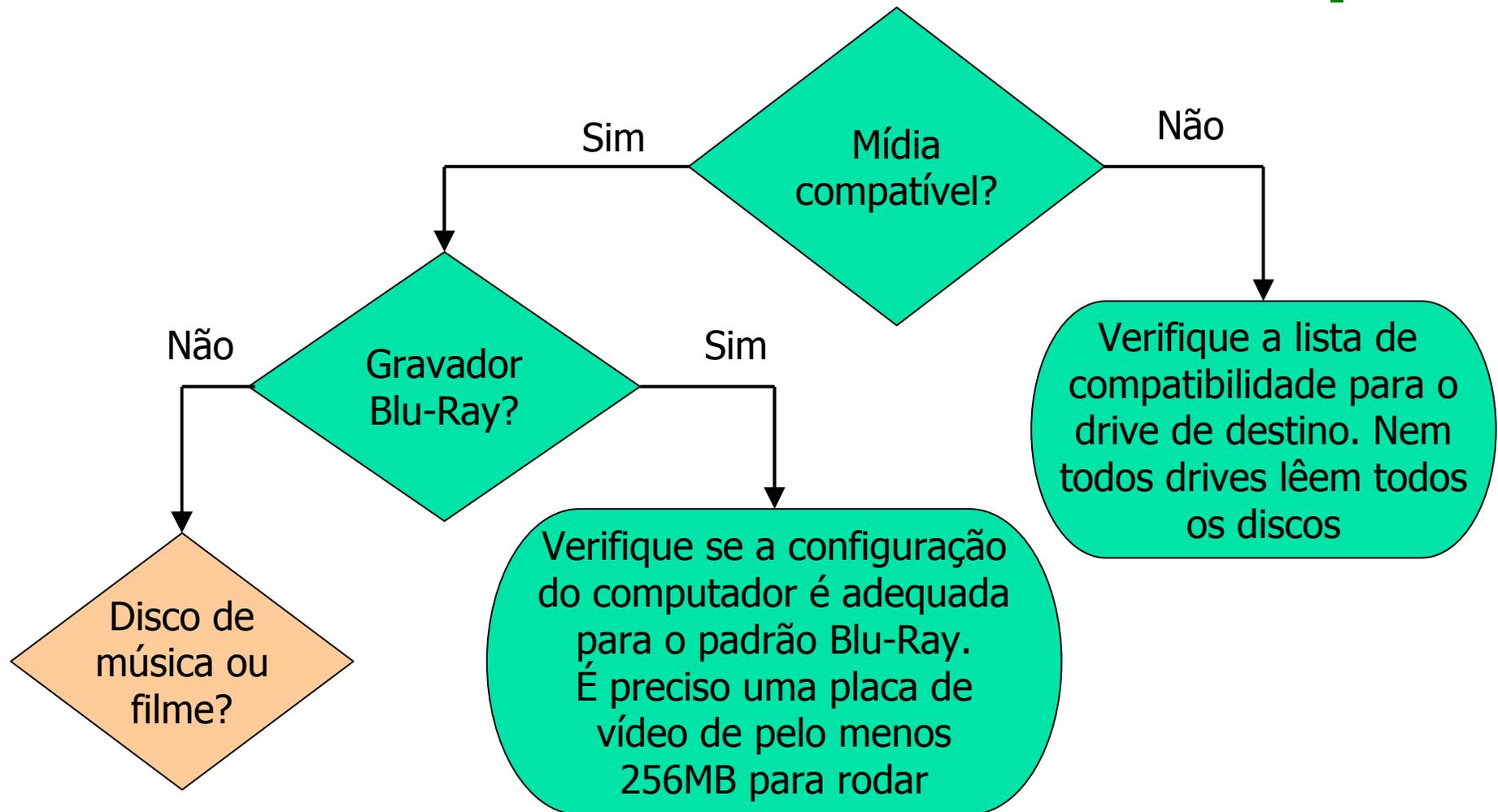
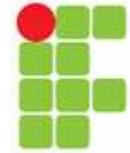
# Problema ao gravar CD, DVD e Blu-Ray



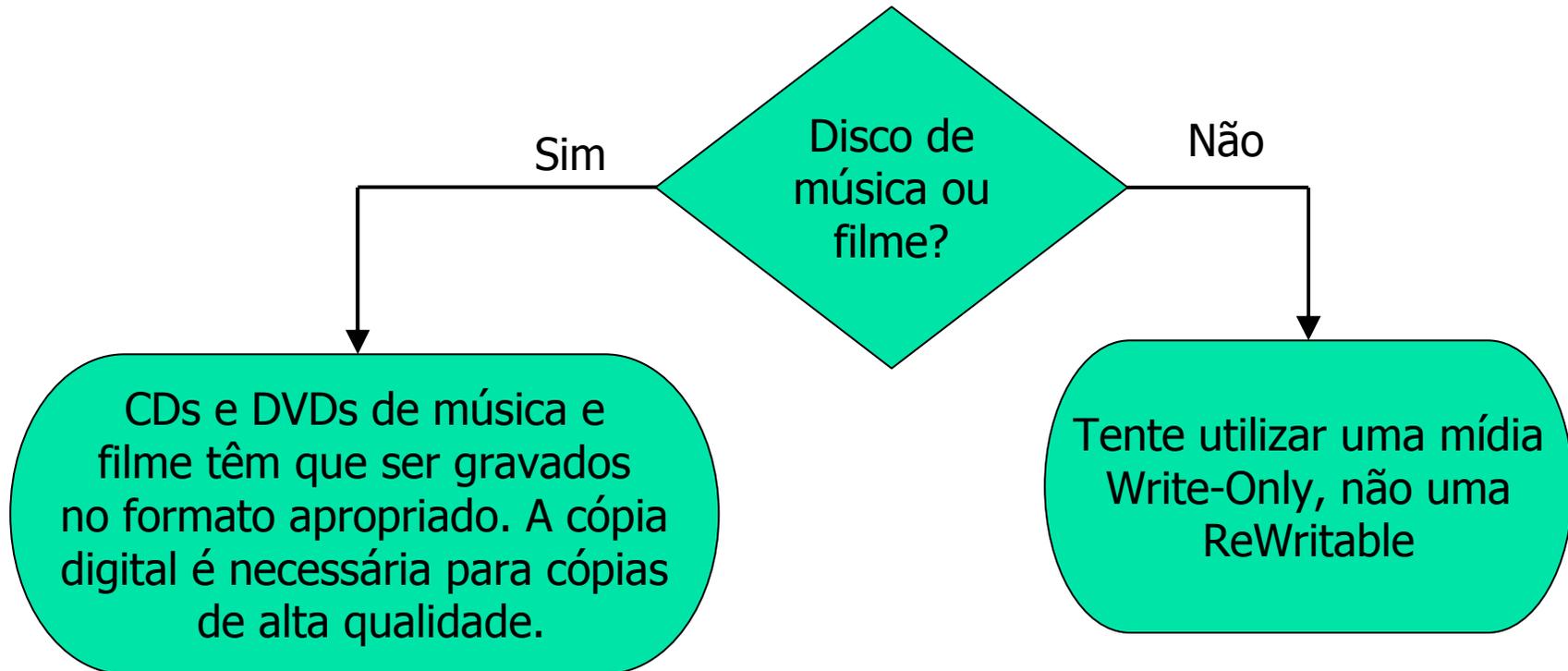
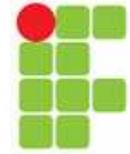
# Problema ao gravar CD, DVD e Blu-Ray



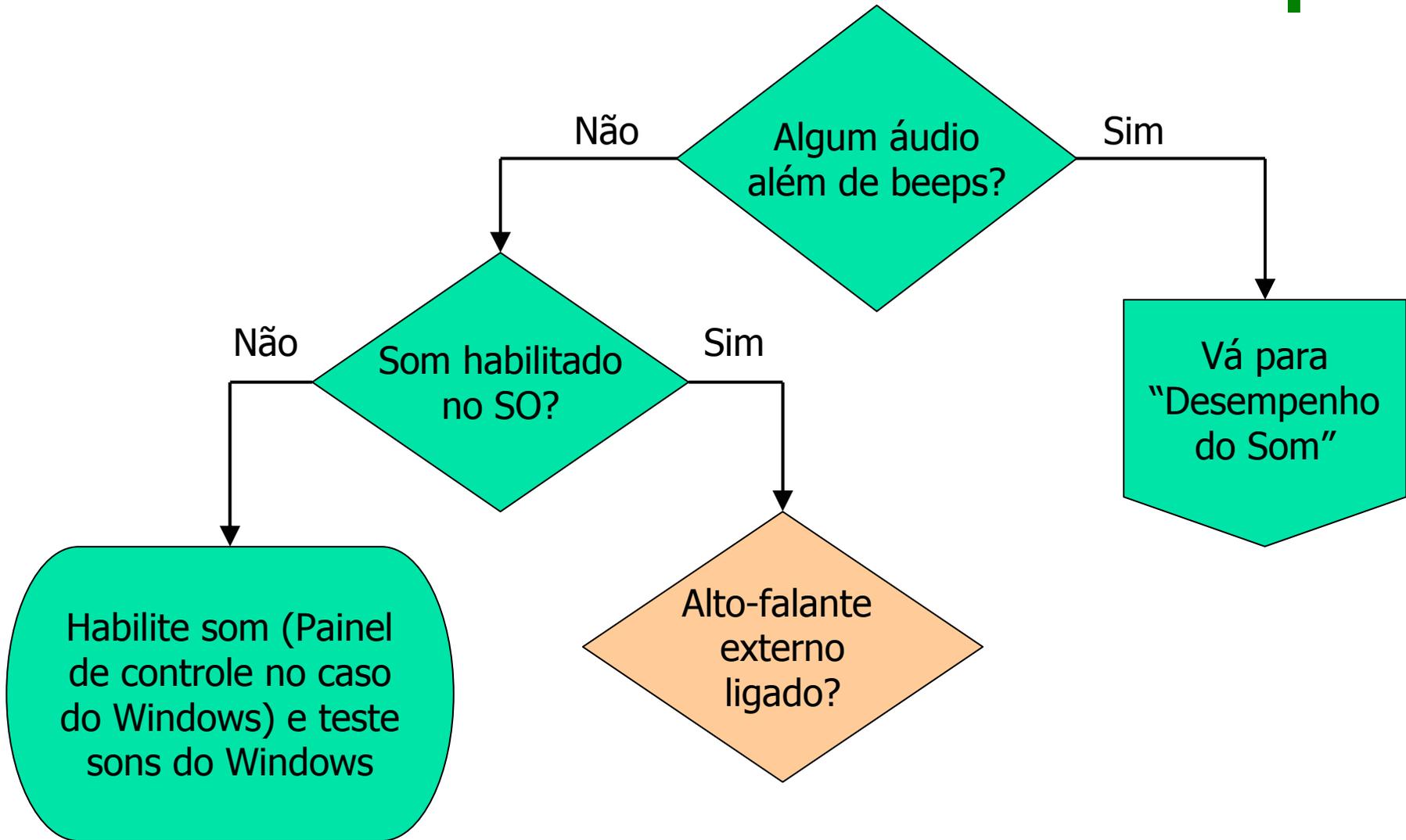
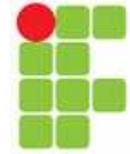
# Problema ao gravar CD, DVD e Blu-Ray



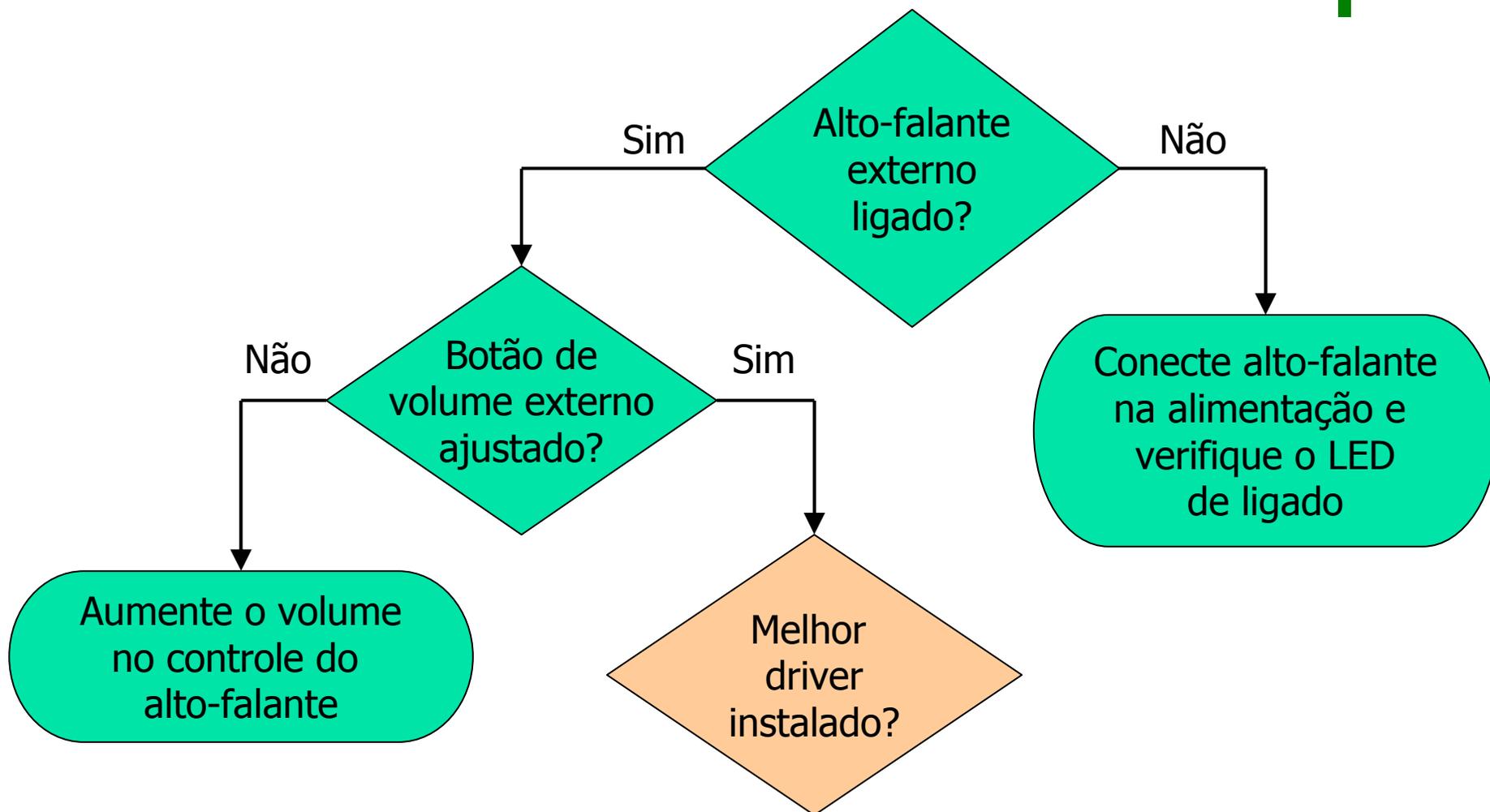
# Problema ao gravar CD, DVD e Blu-Ray



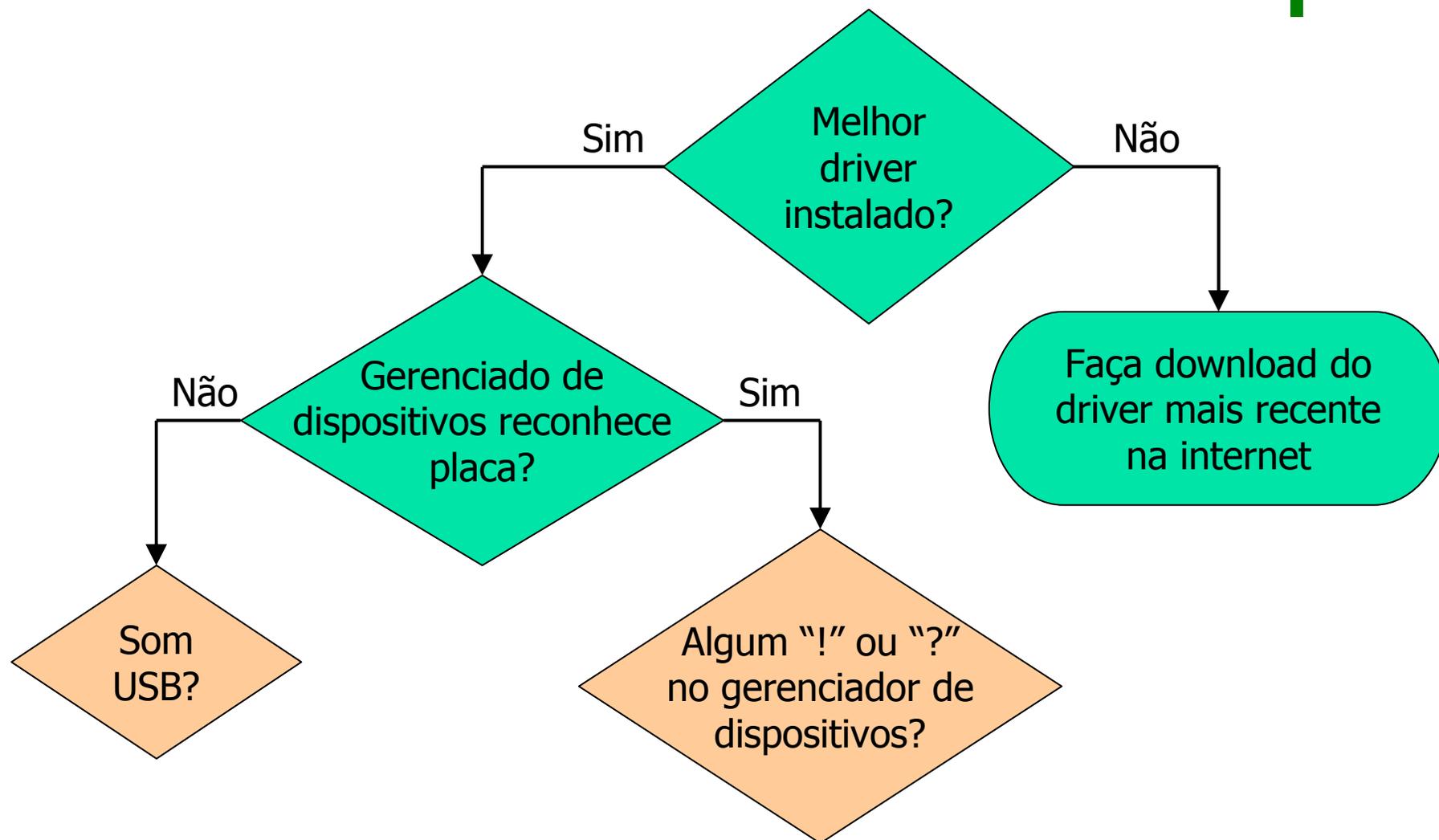
# Falha no Som



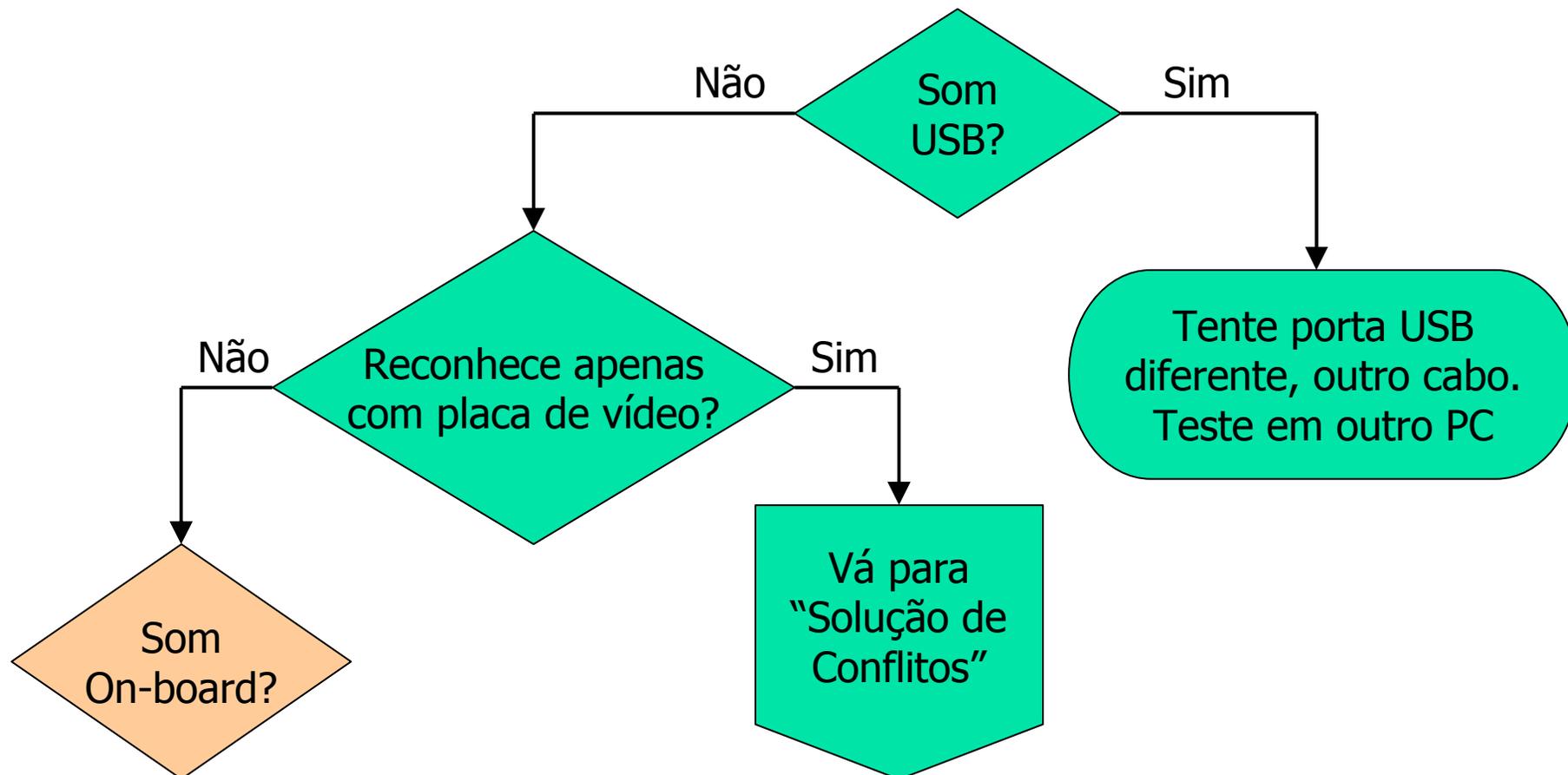
# Falha no Som



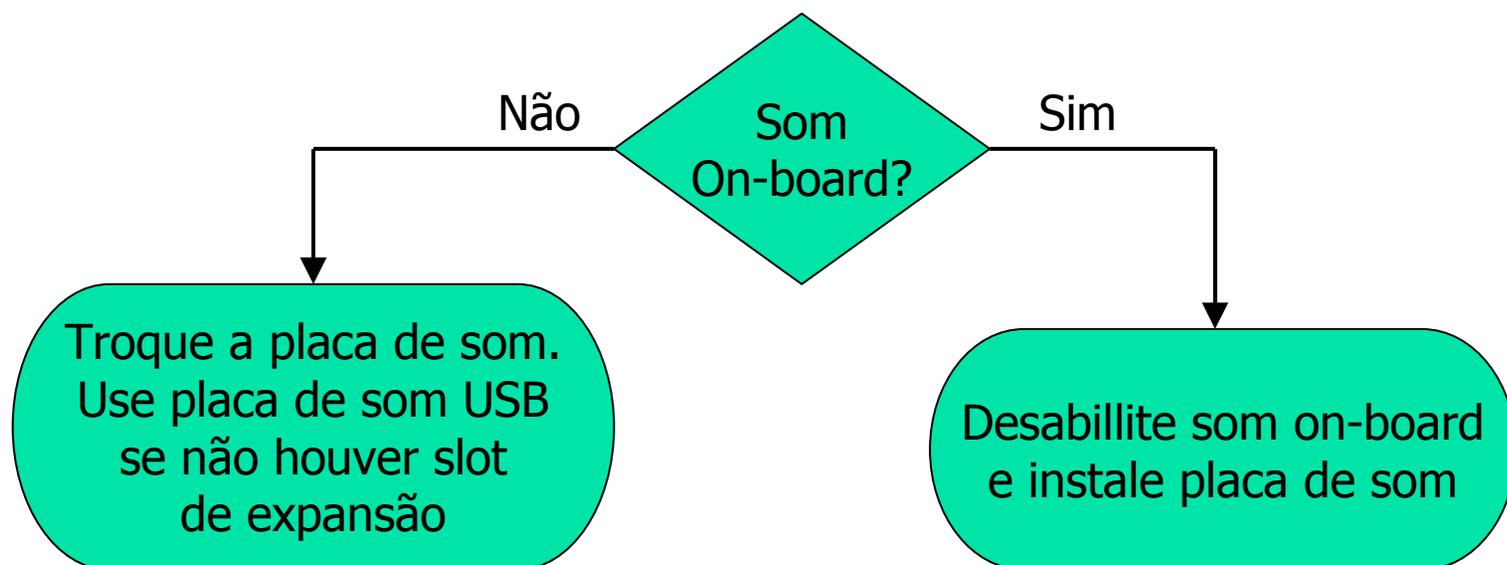
# Falha no Som



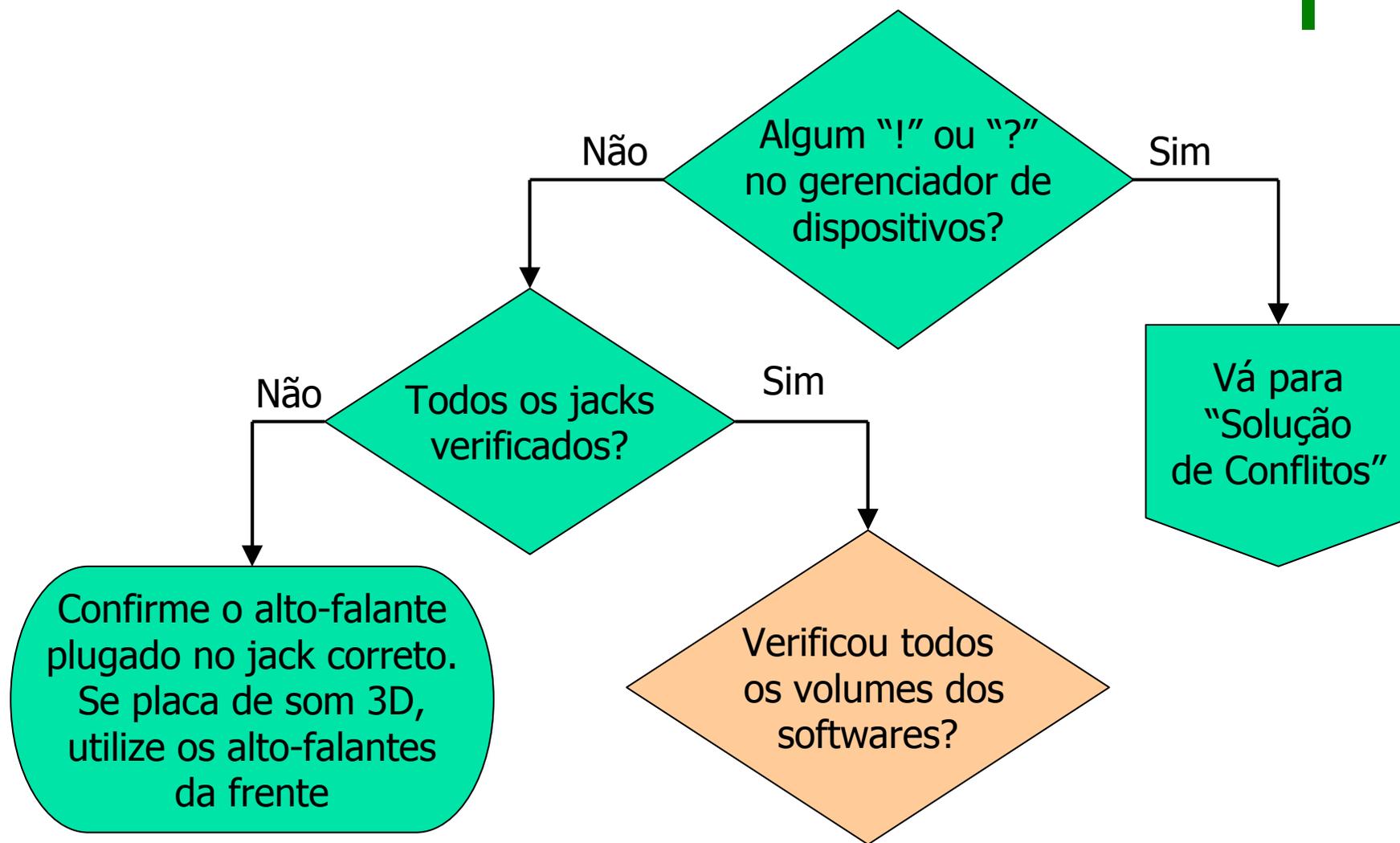
# Falha no Som



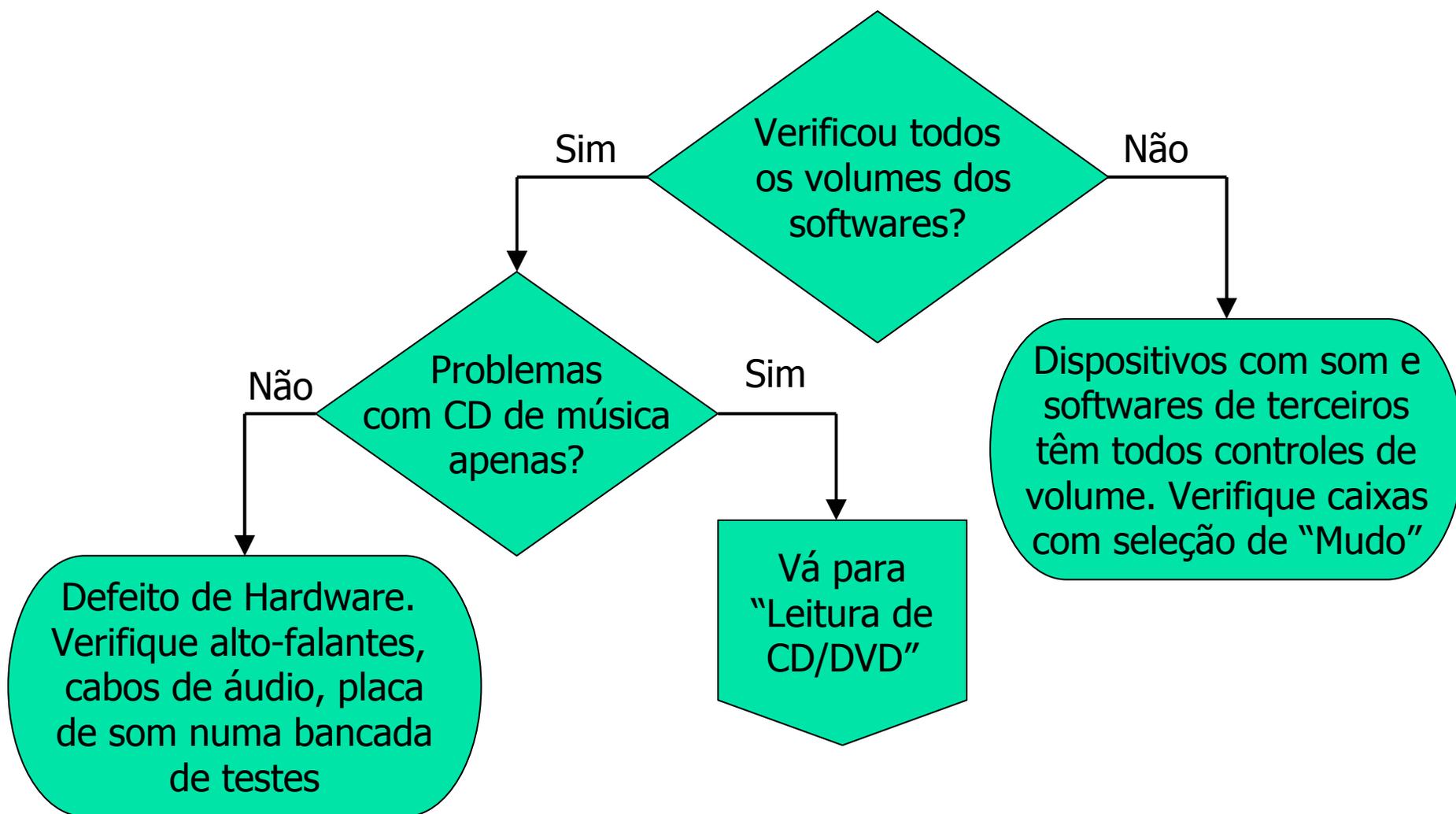
# Falha no Som



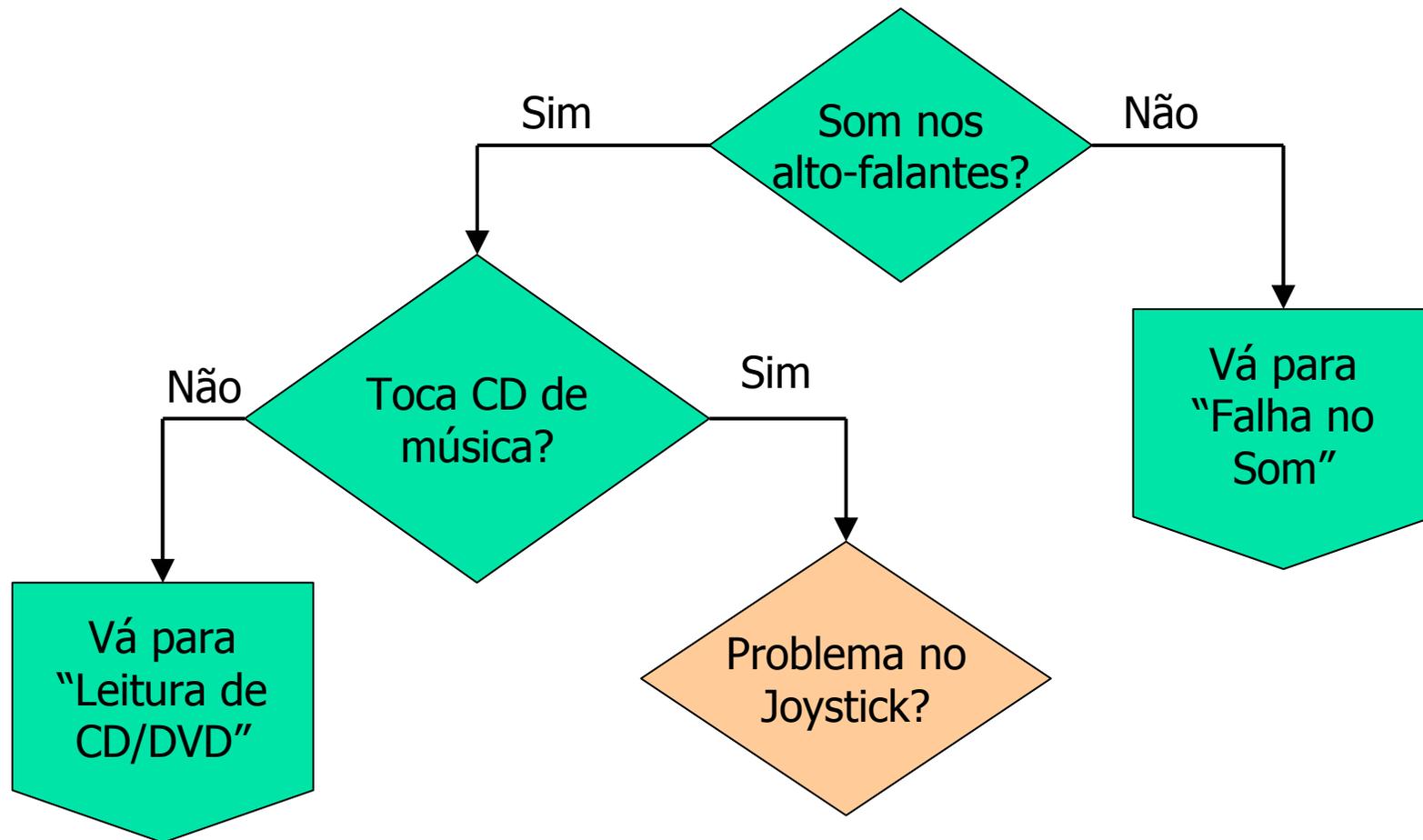
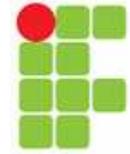
# Falha no Som



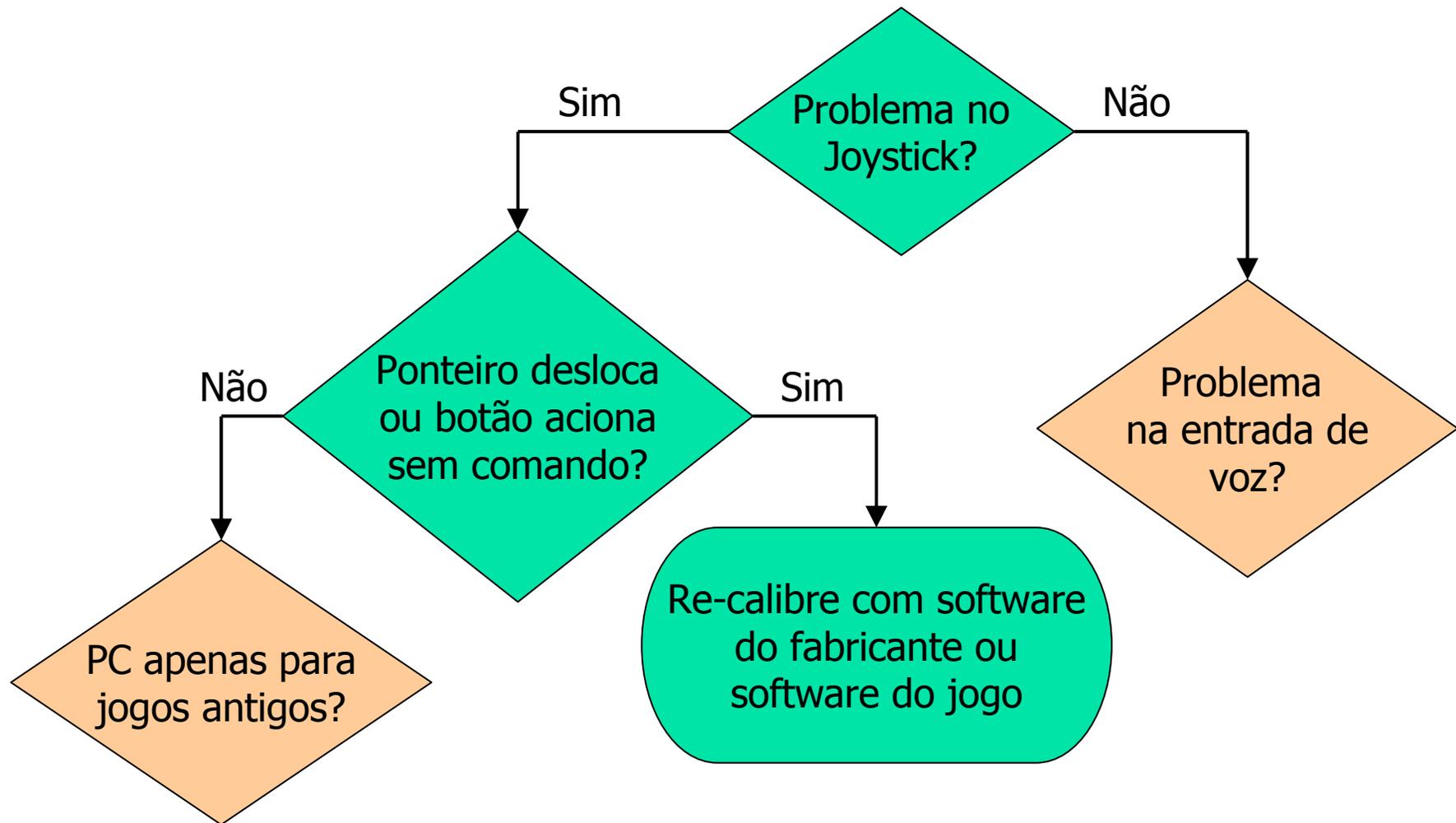
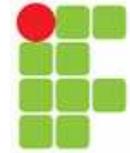
# Falha no Som



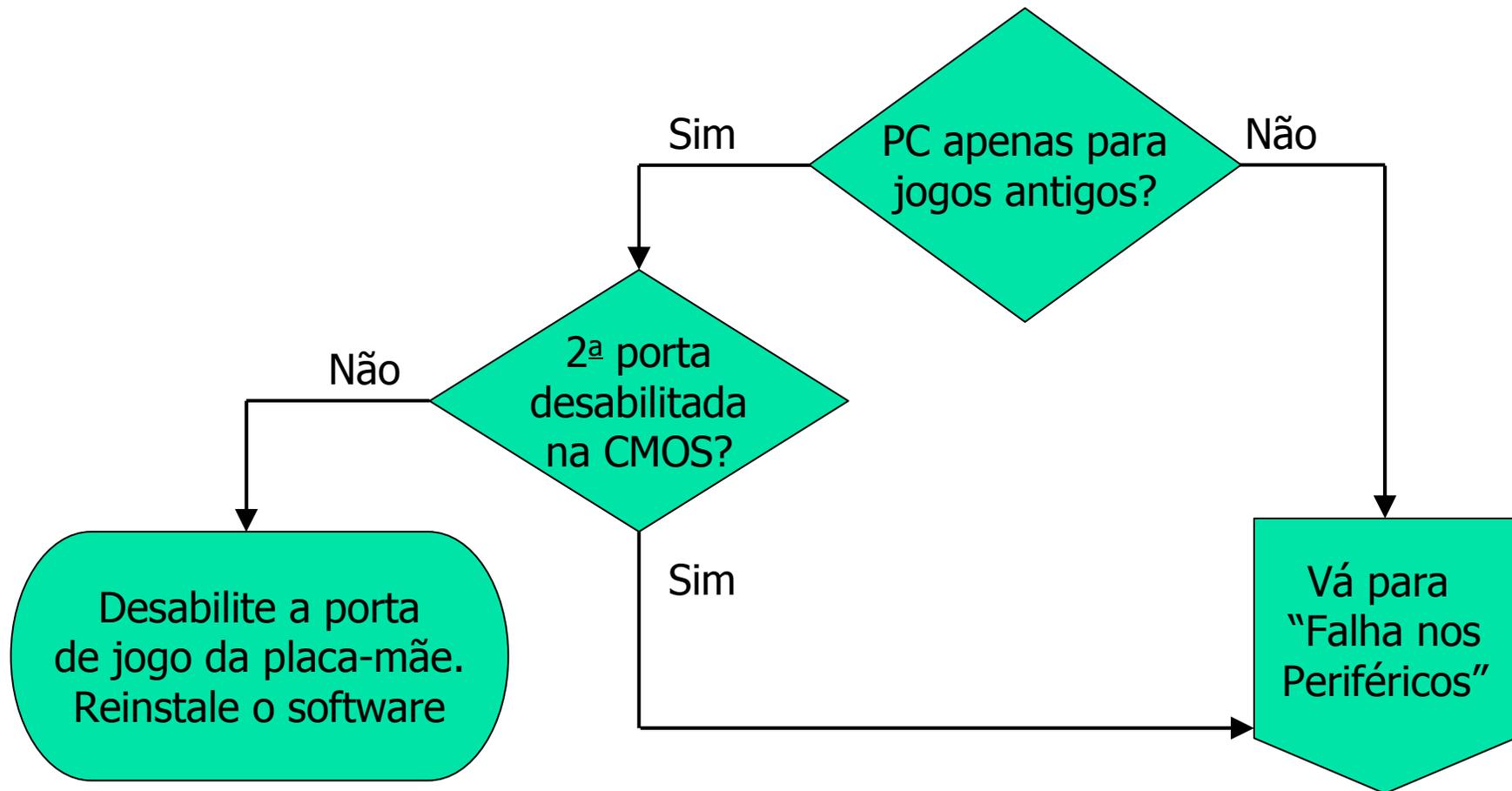
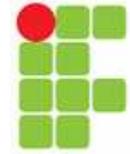
# Desempenho do Som e Controlador de Jogo



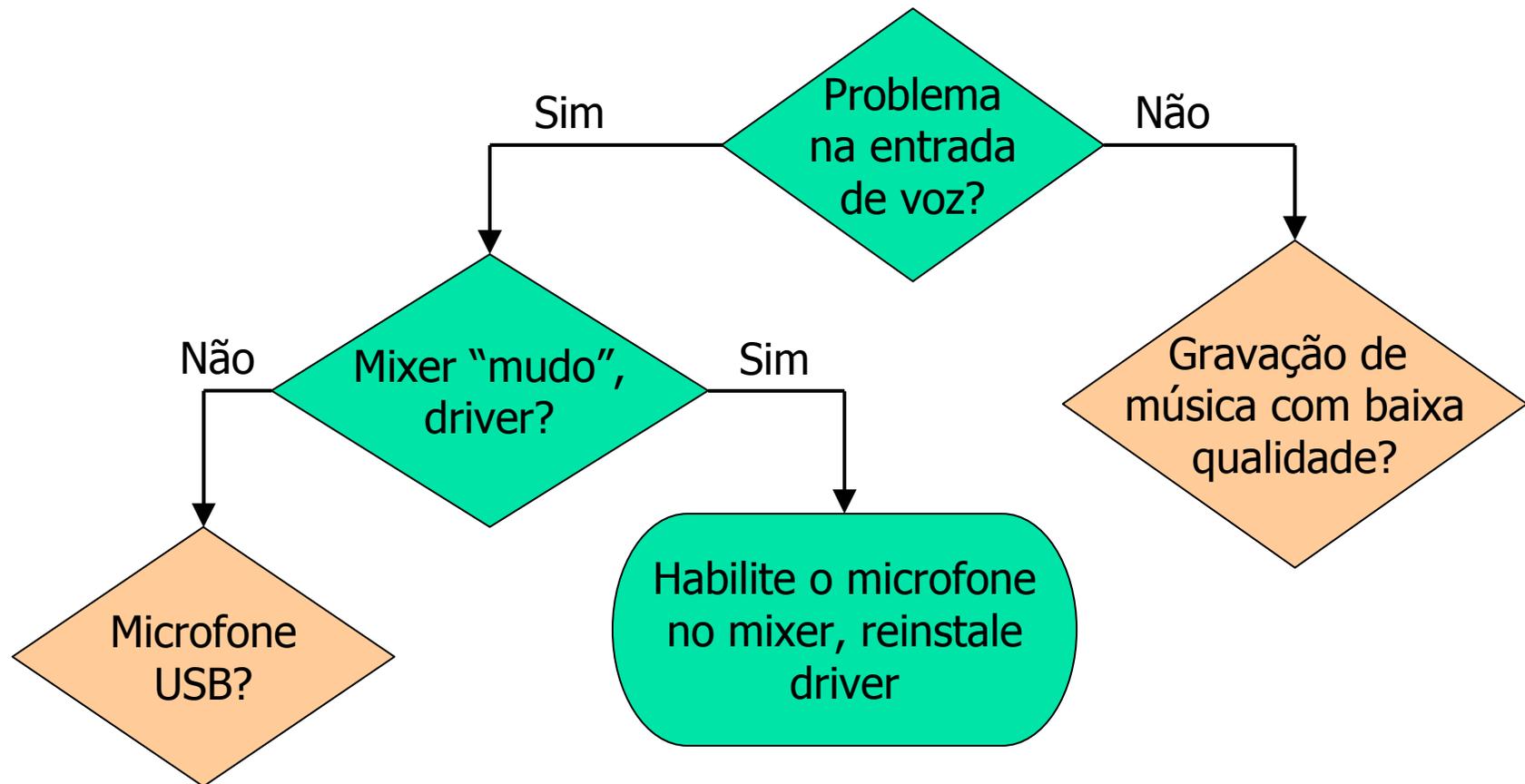
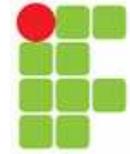
# Desempenho do Som e Controlador de Jogo



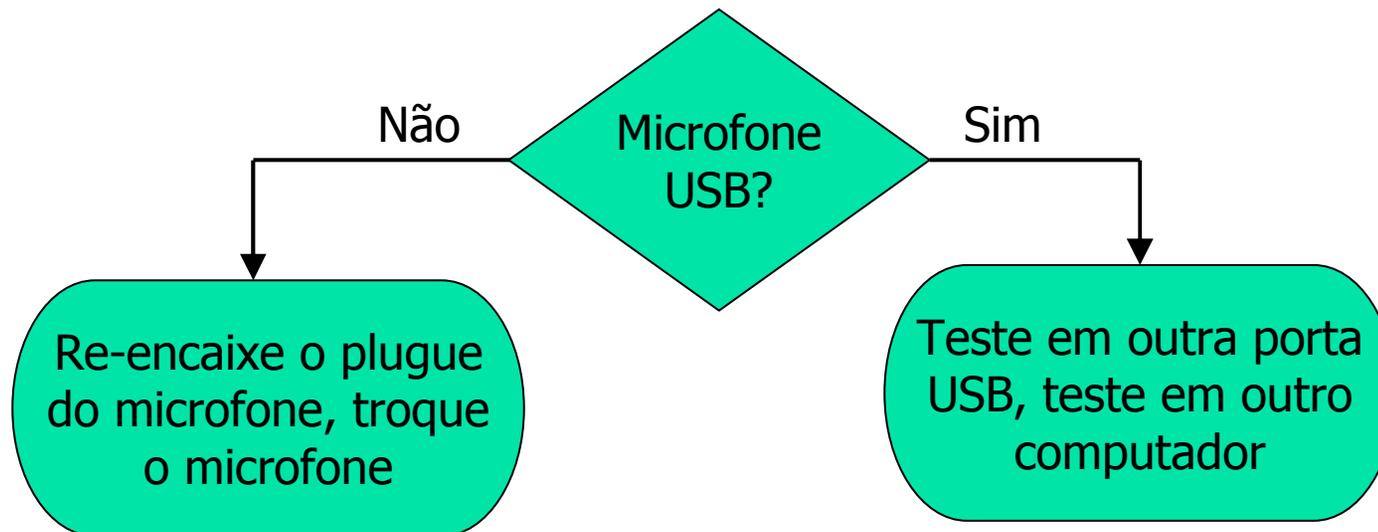
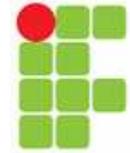
# Desempenho do Som e Controlador de Jogo



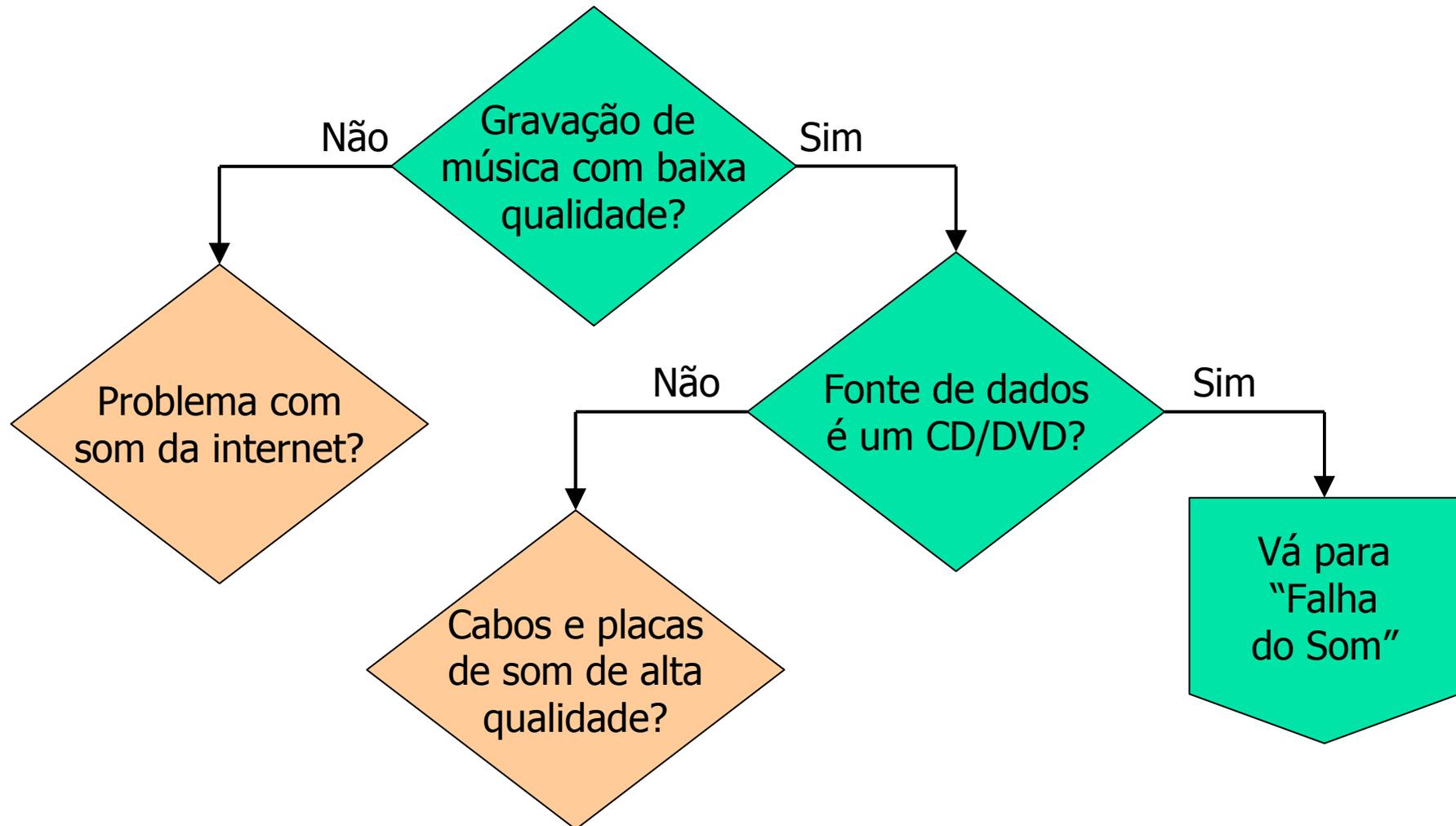
# Desempenho do Som e Controlador de Jogo



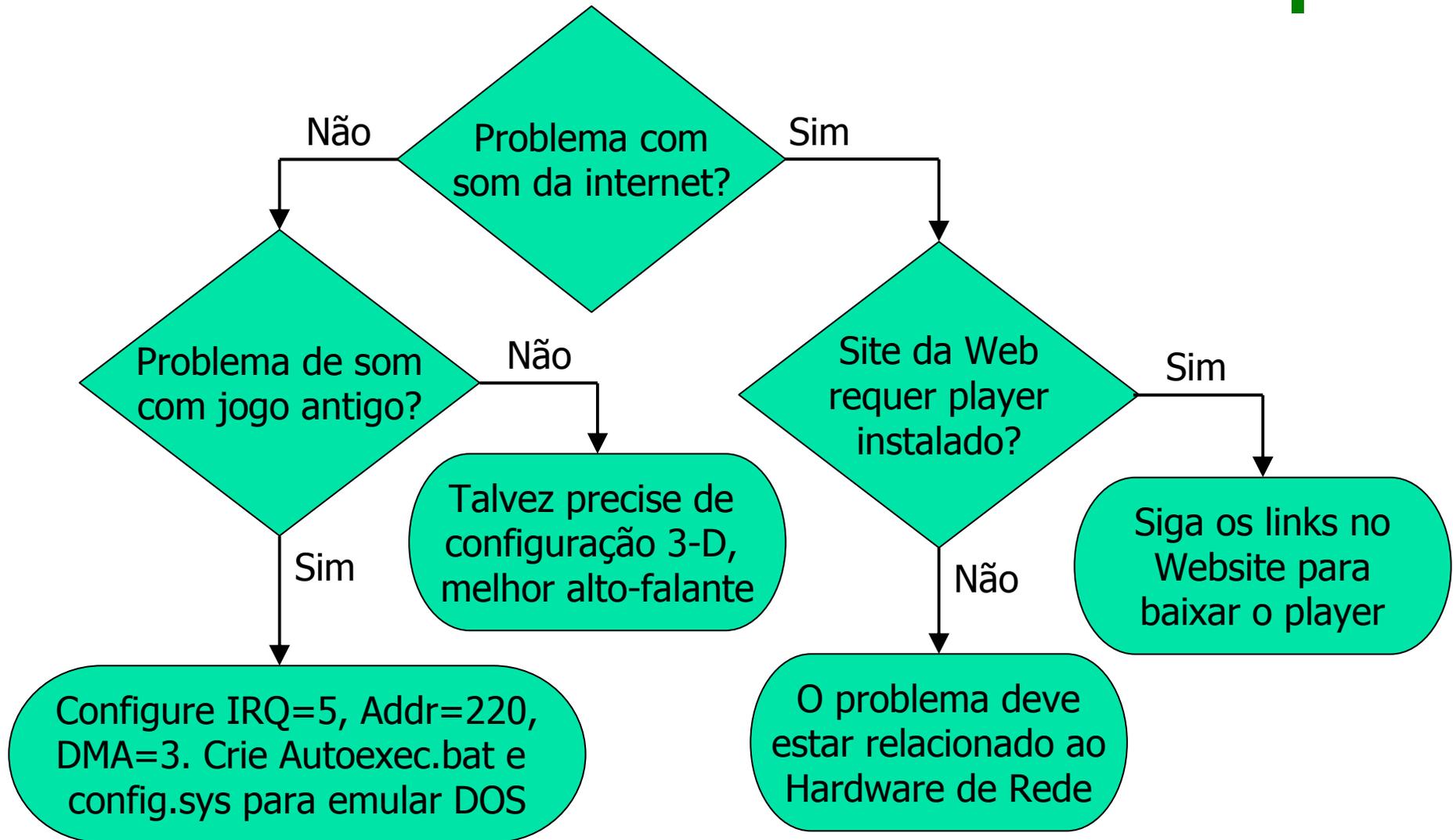
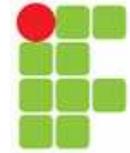
# Desempenho do Som e Controlador de Jogo



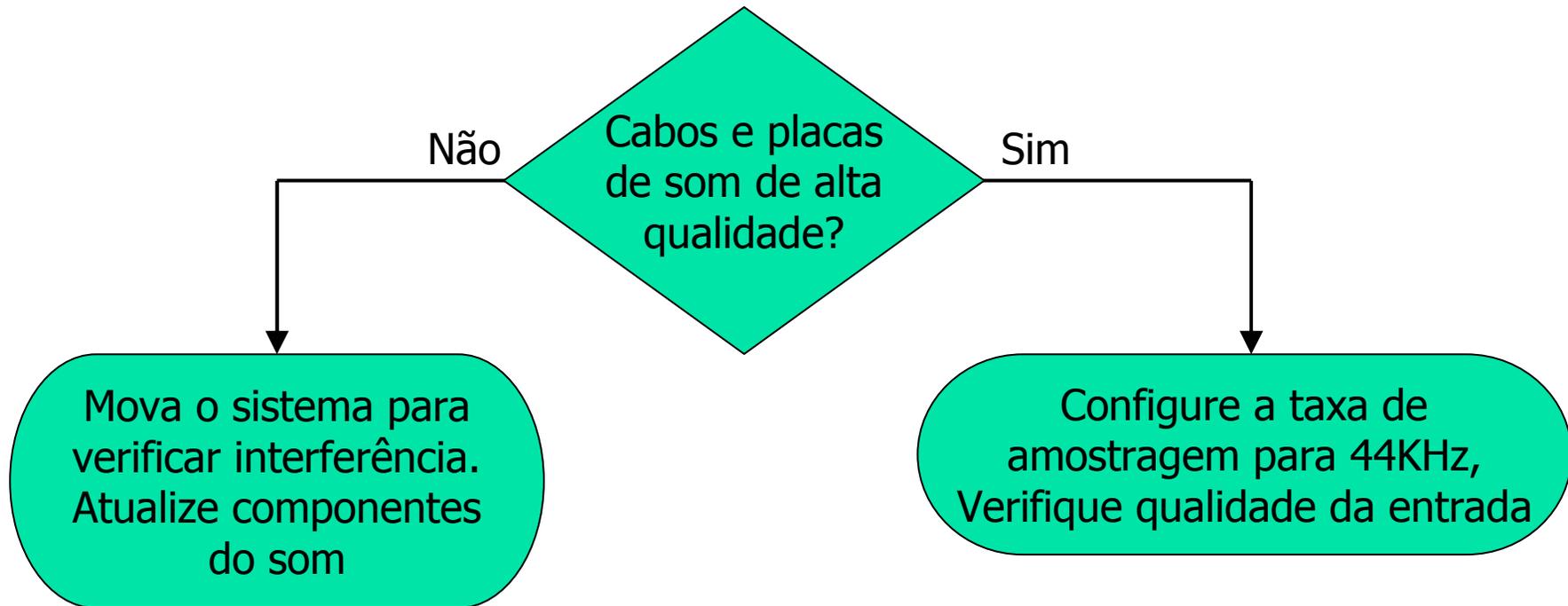
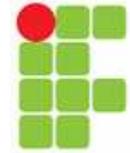
# Desempenho do Som e Controlador de Jogo



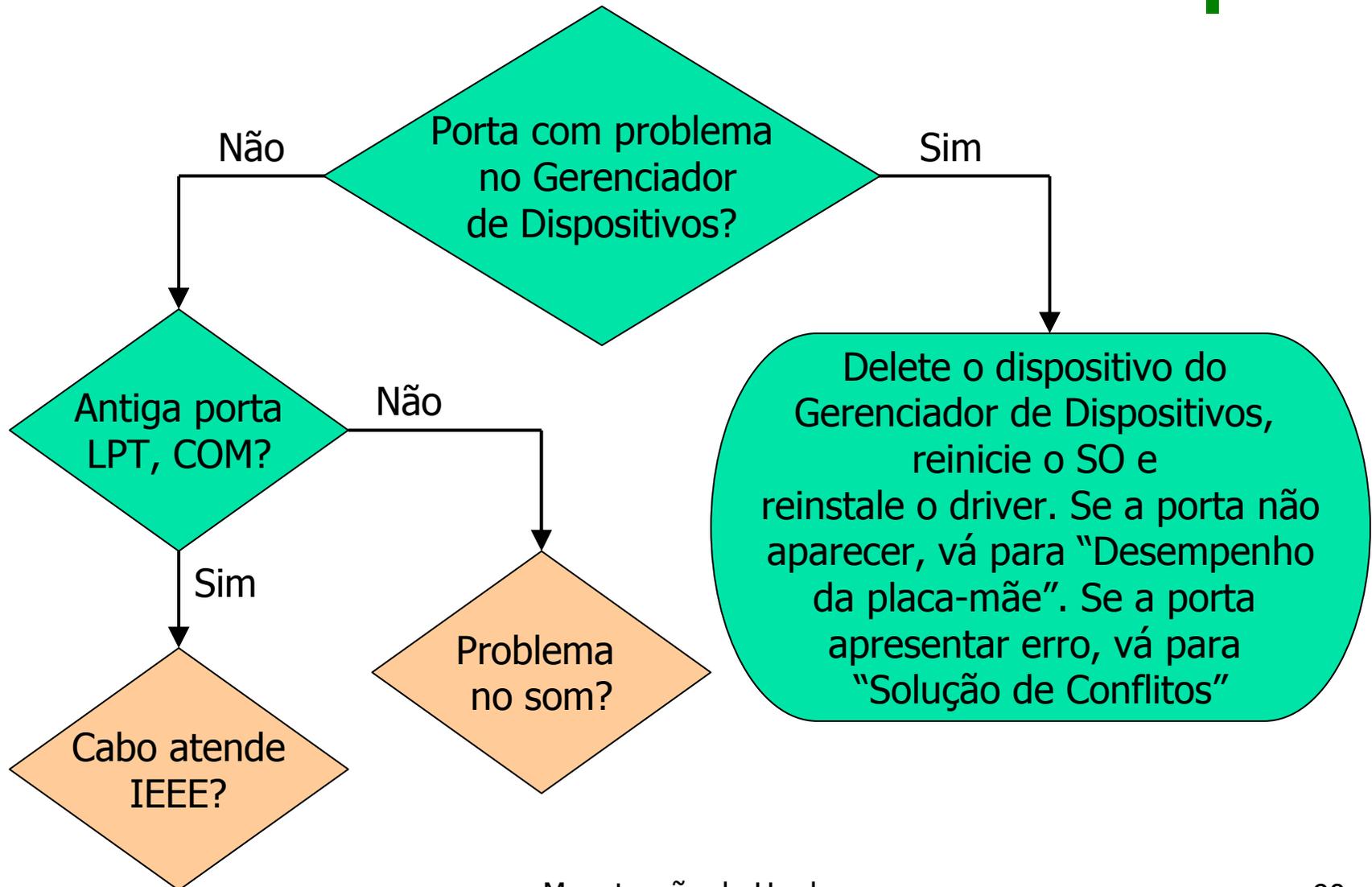
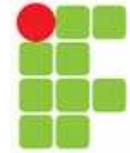
# Desempenho do Som e Controlador de Jogo



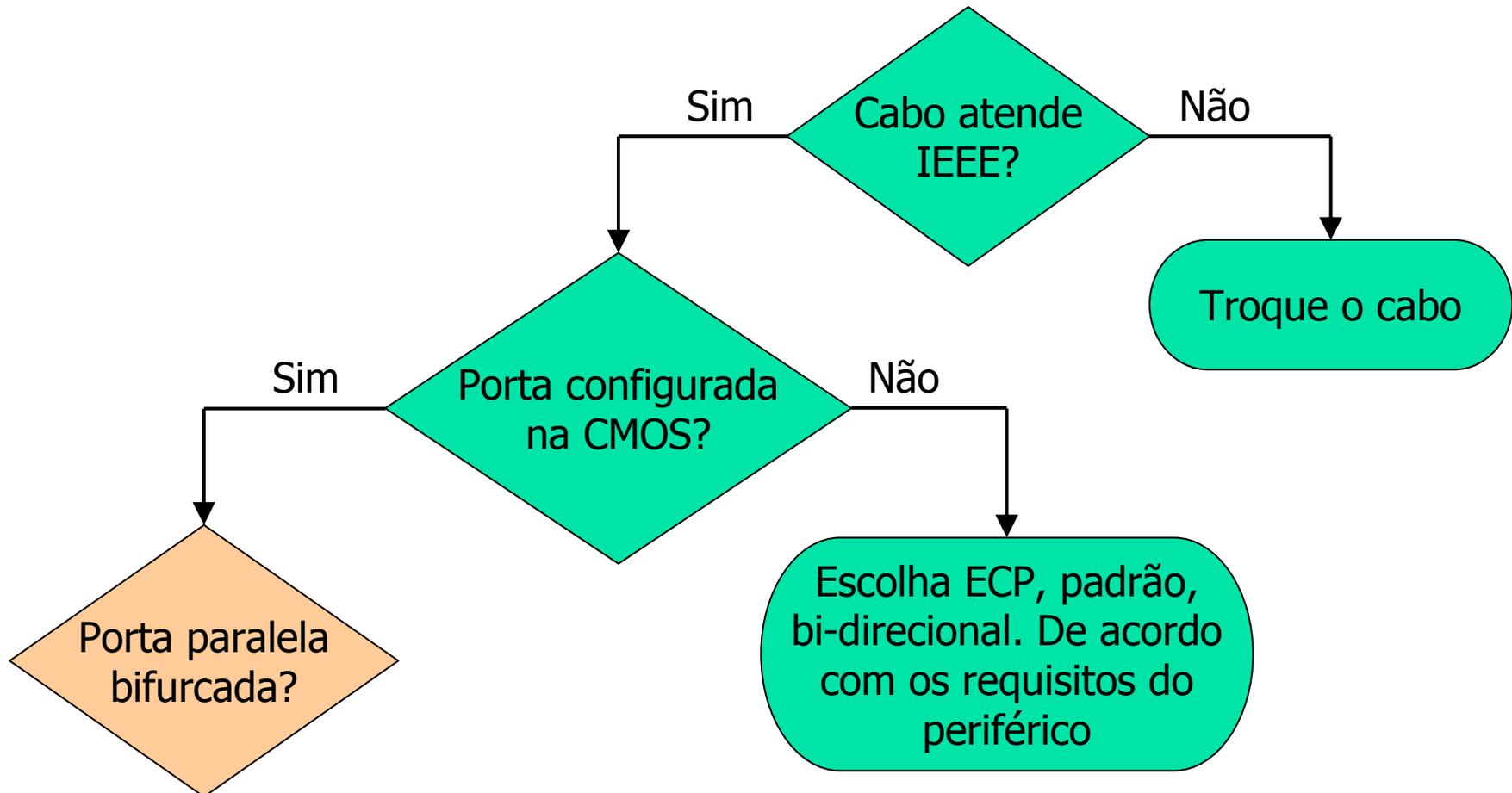
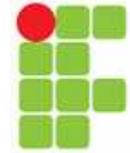
# Desempenho do Som e Controlador de Jogo



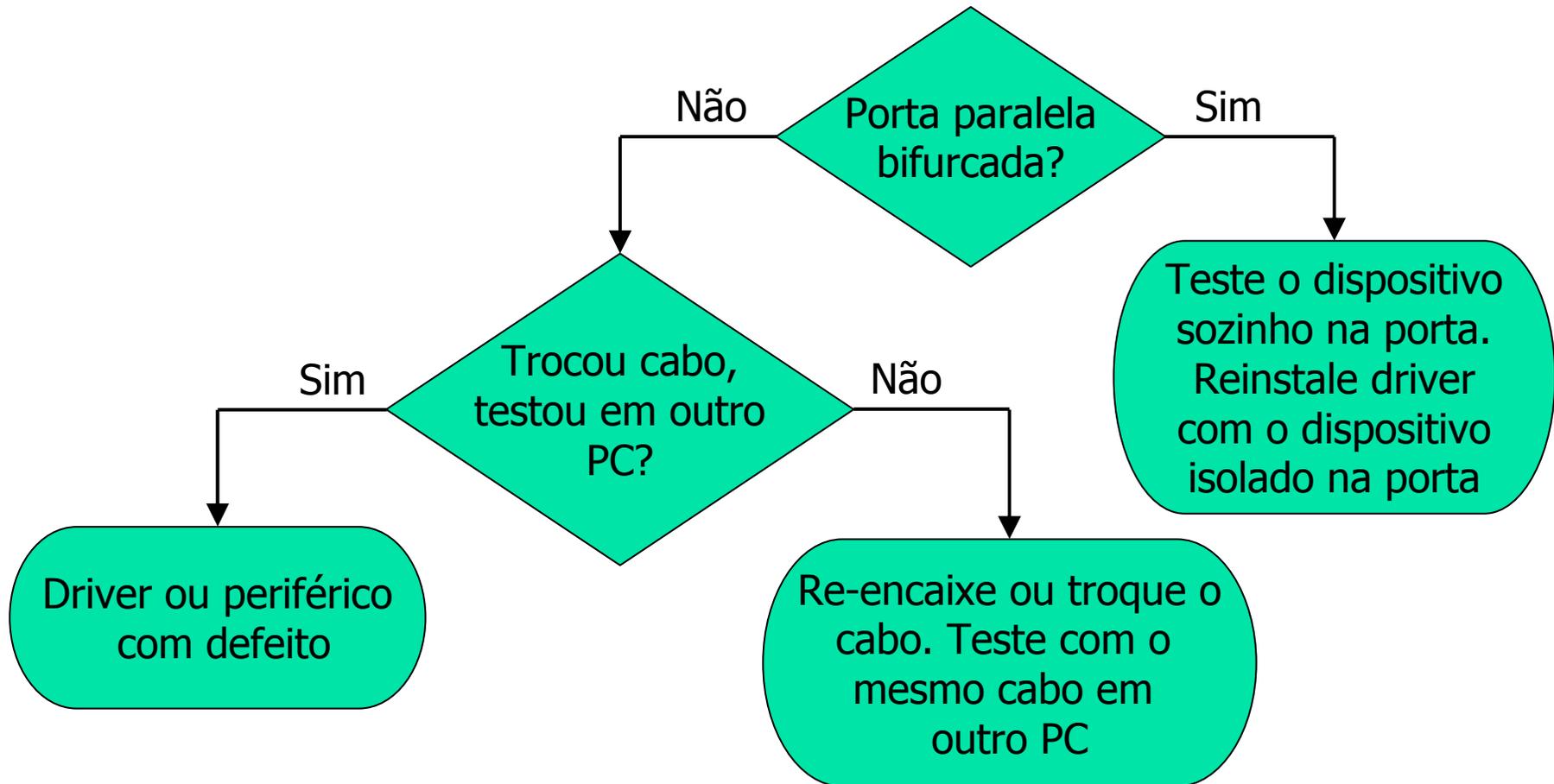
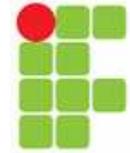
# Falha nos Periféricos



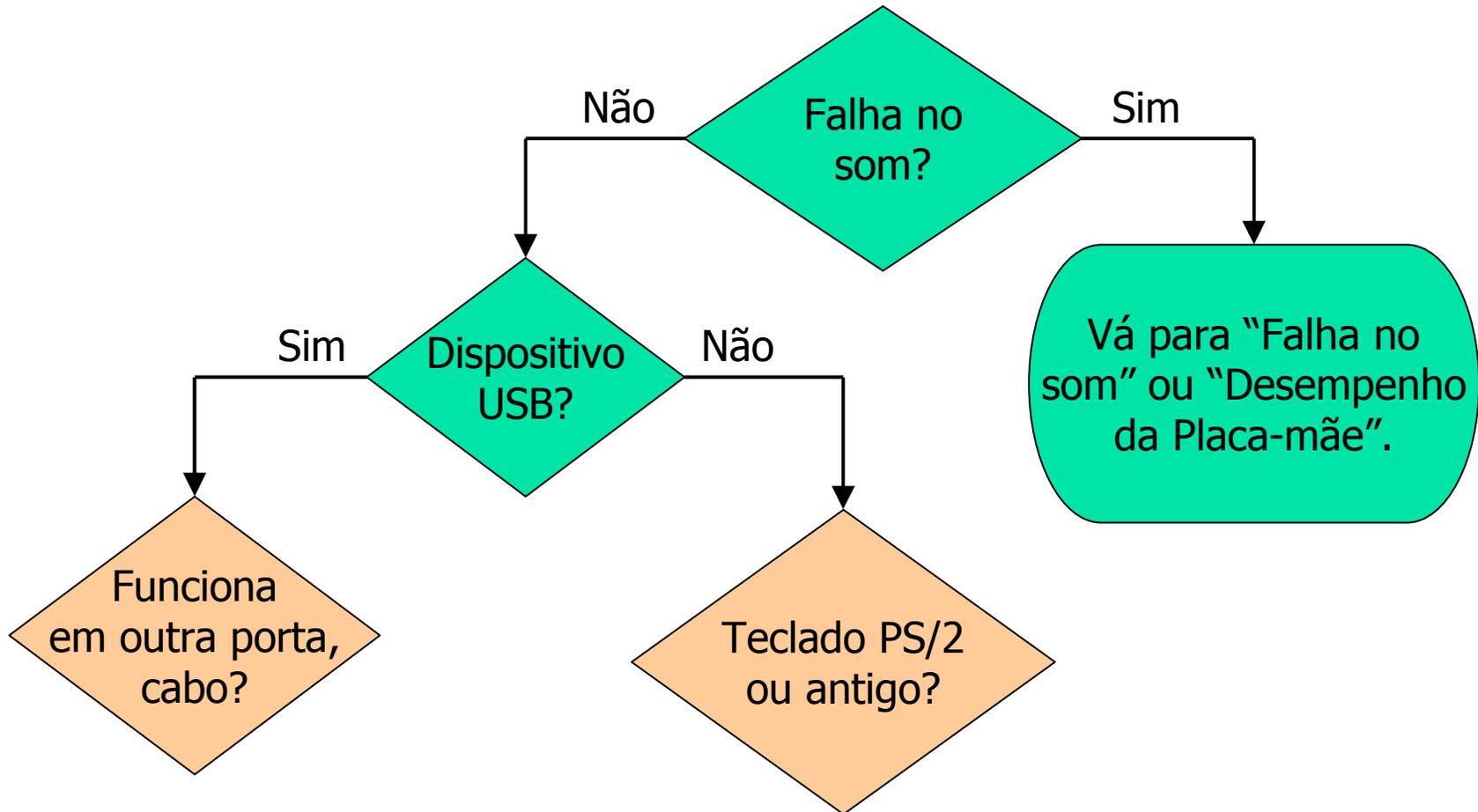
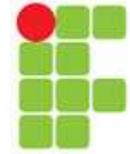
# Falha nos Periféricos



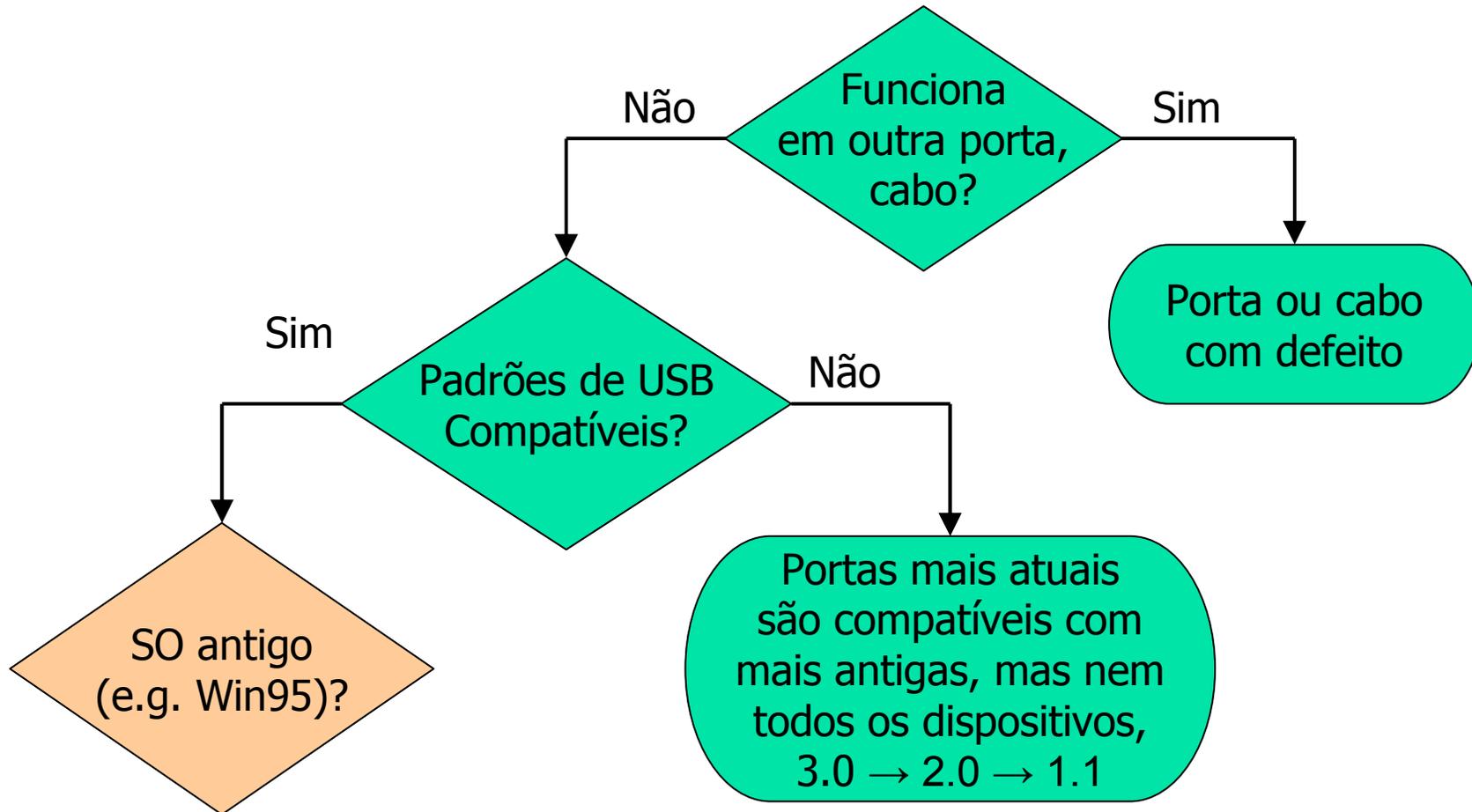
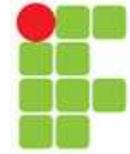
# Falha nos Periféricos



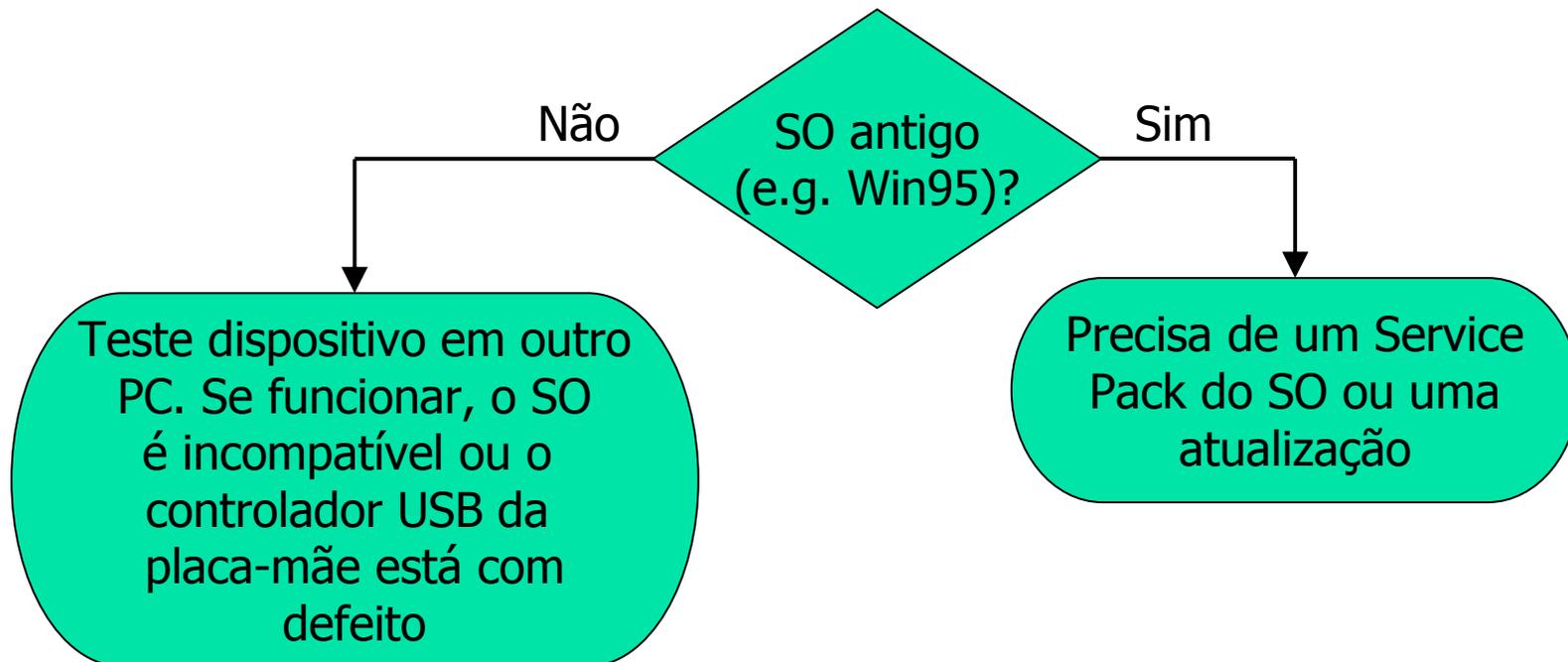
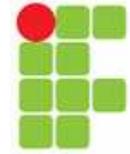
# Falha nos Periféricos



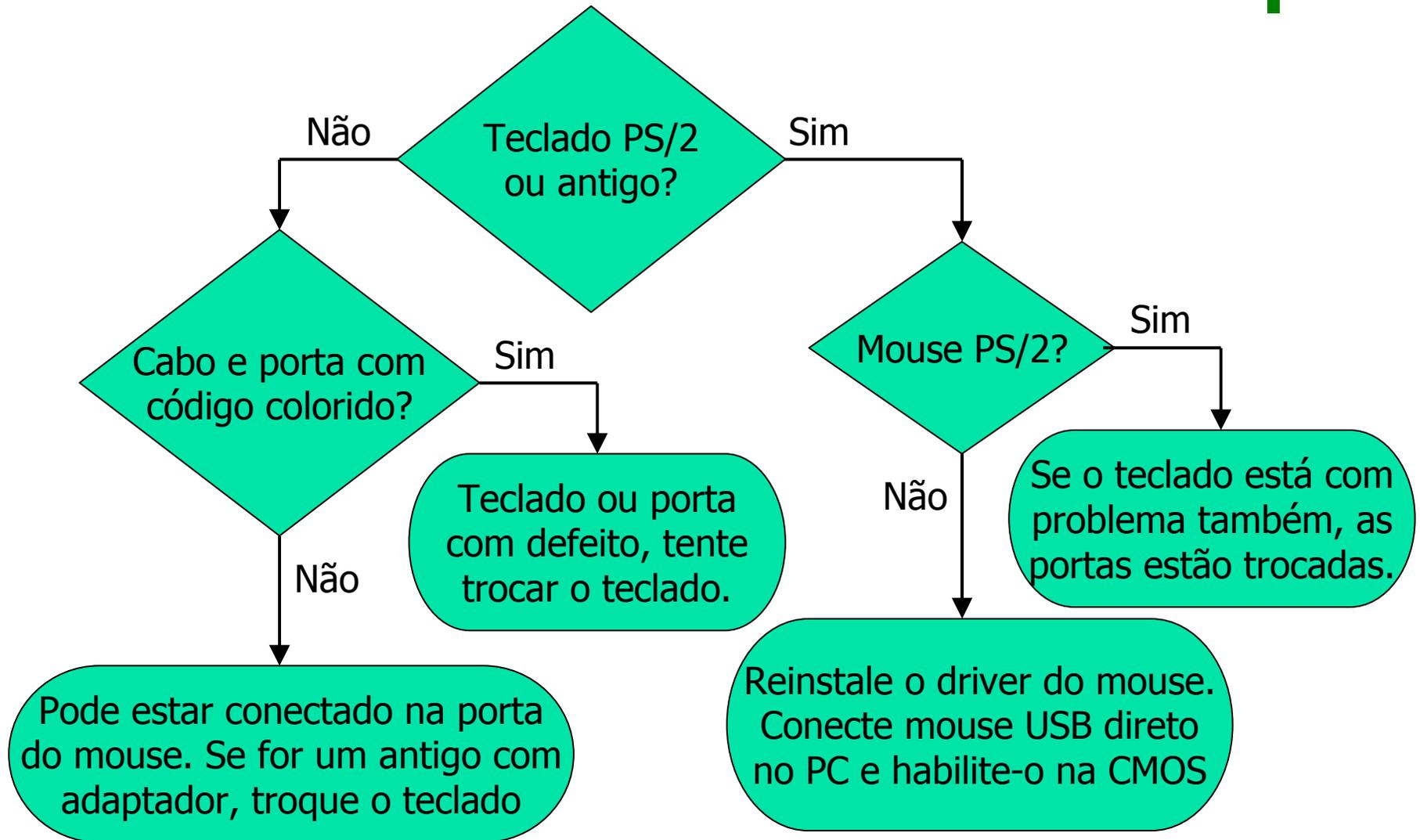
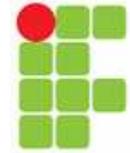
# Falha nos Periféricos



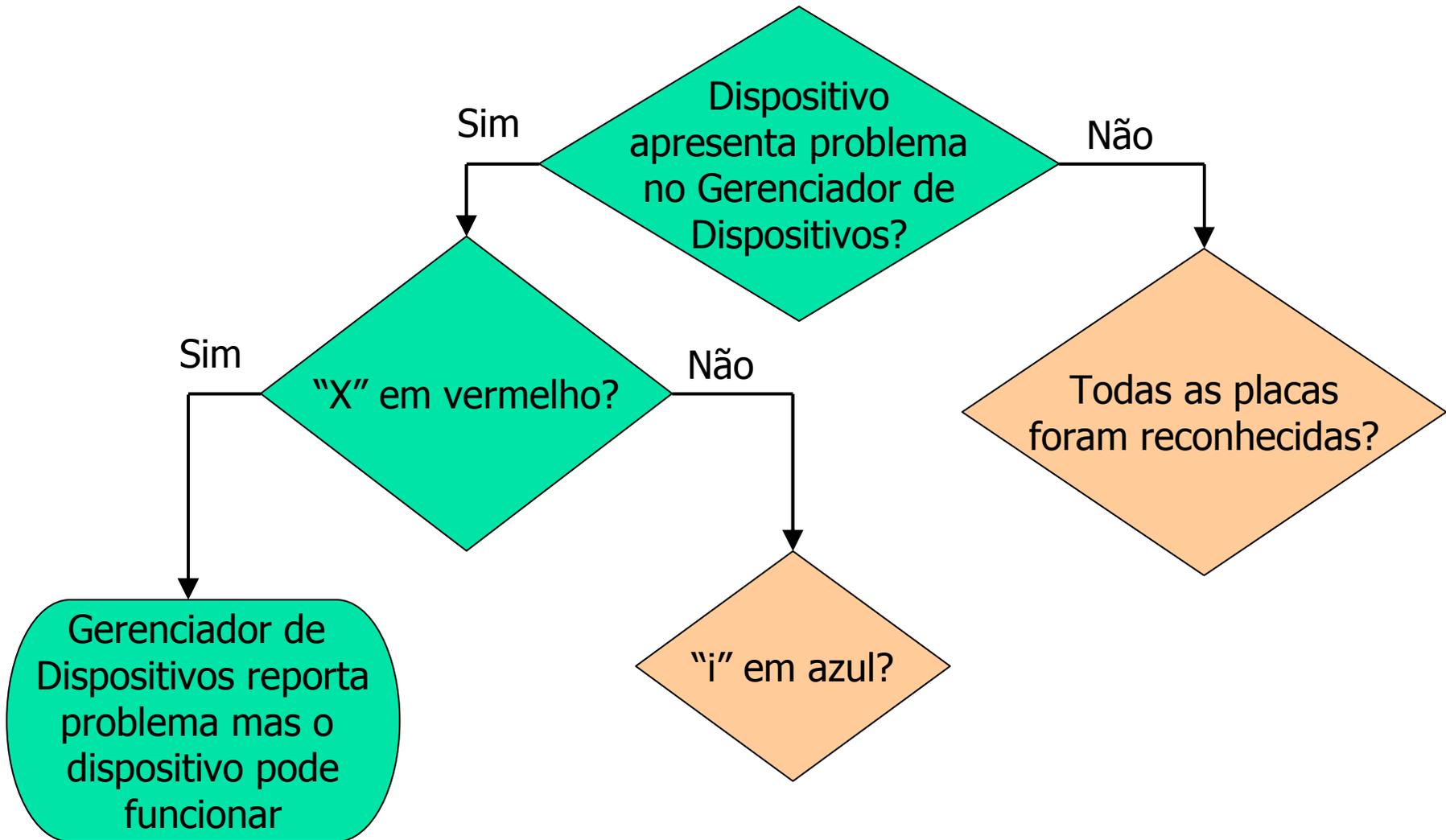
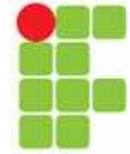
# Falha nos Periféricos



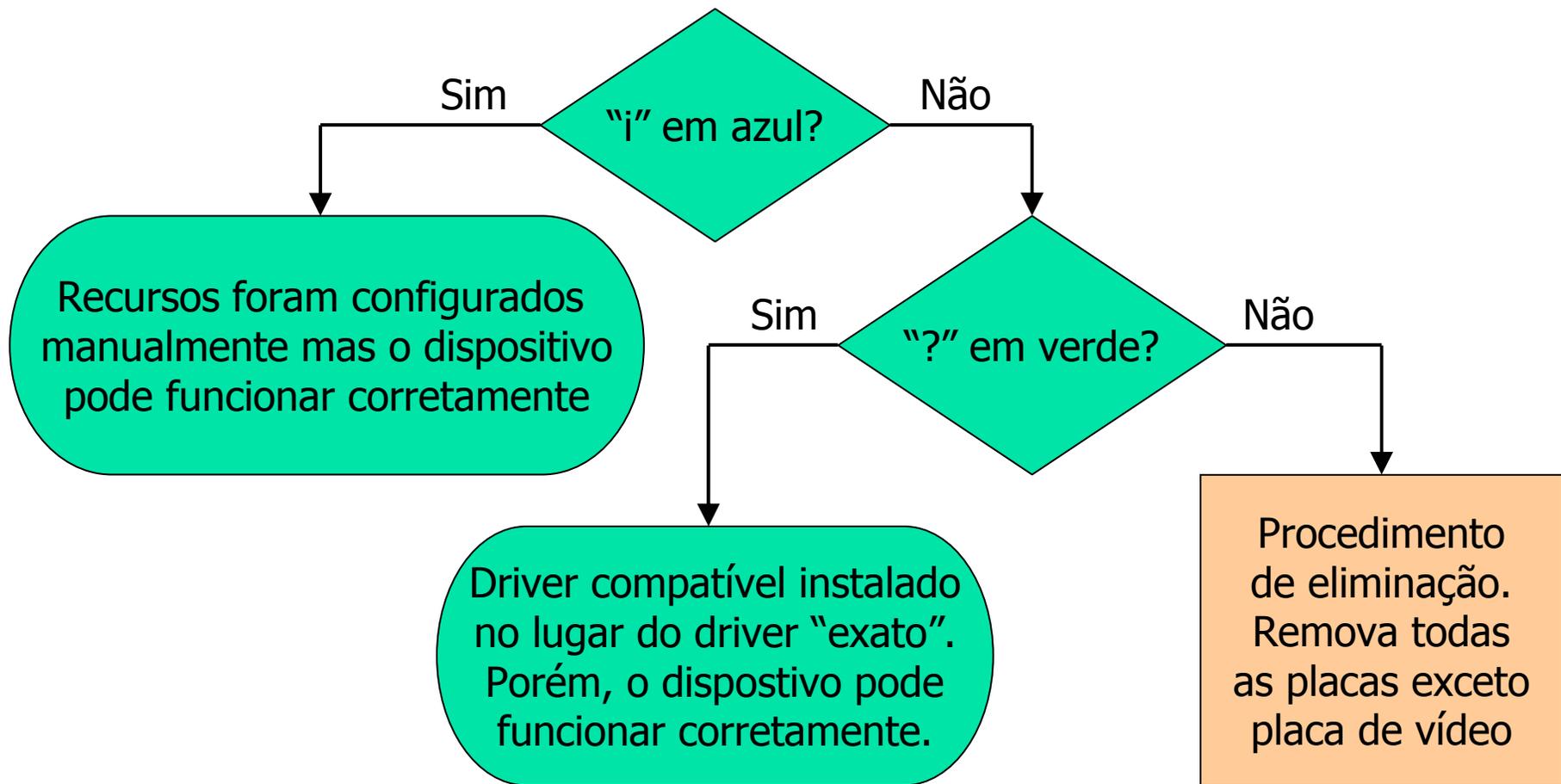
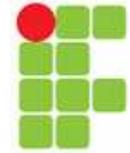
# Falha nos Periféricos



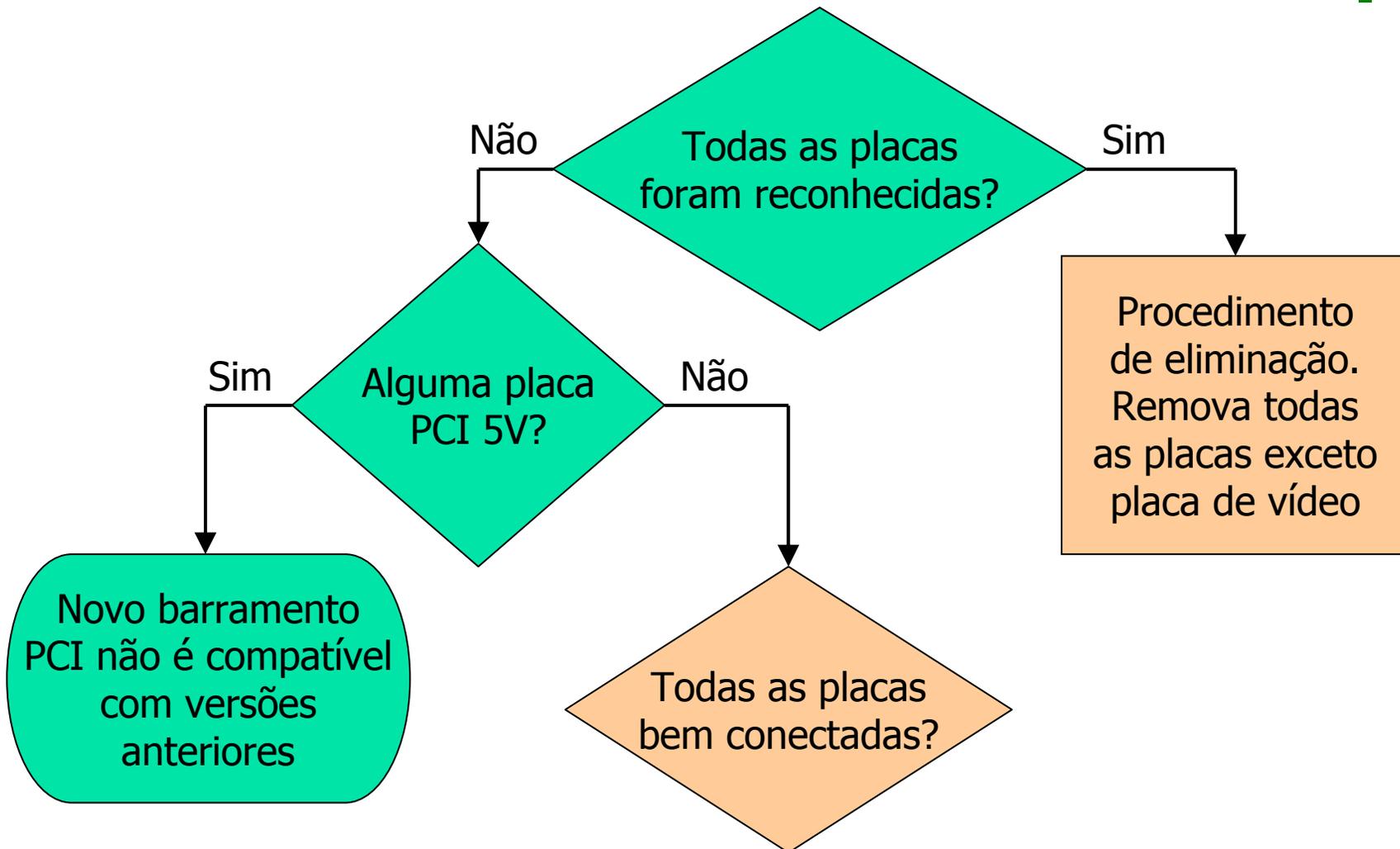
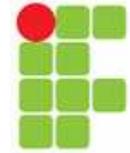
# Solução de Conflitos



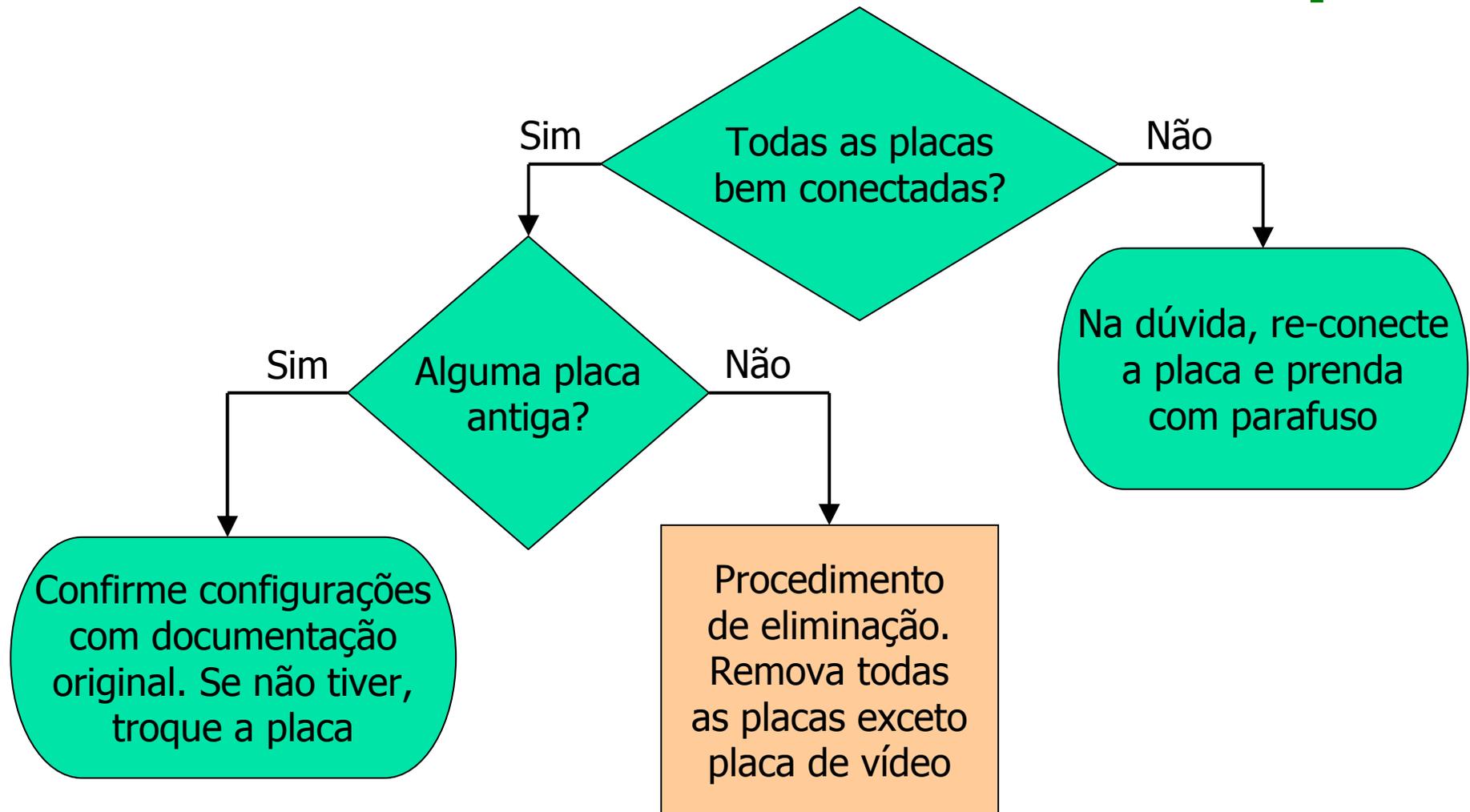
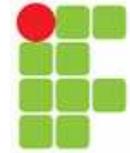
# Solução de Conflitos



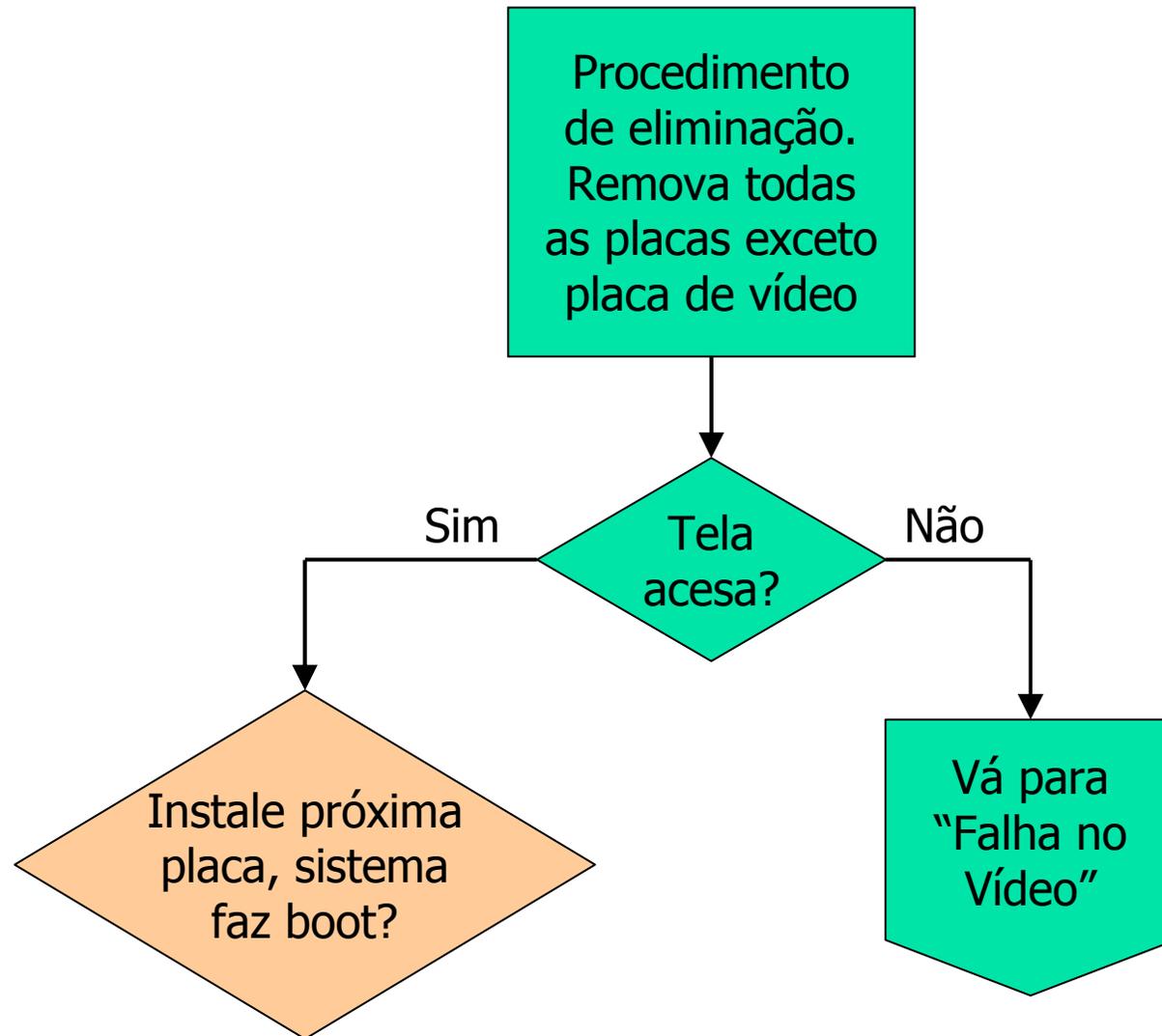
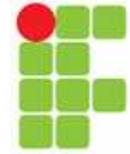
# Solução de Conflitos



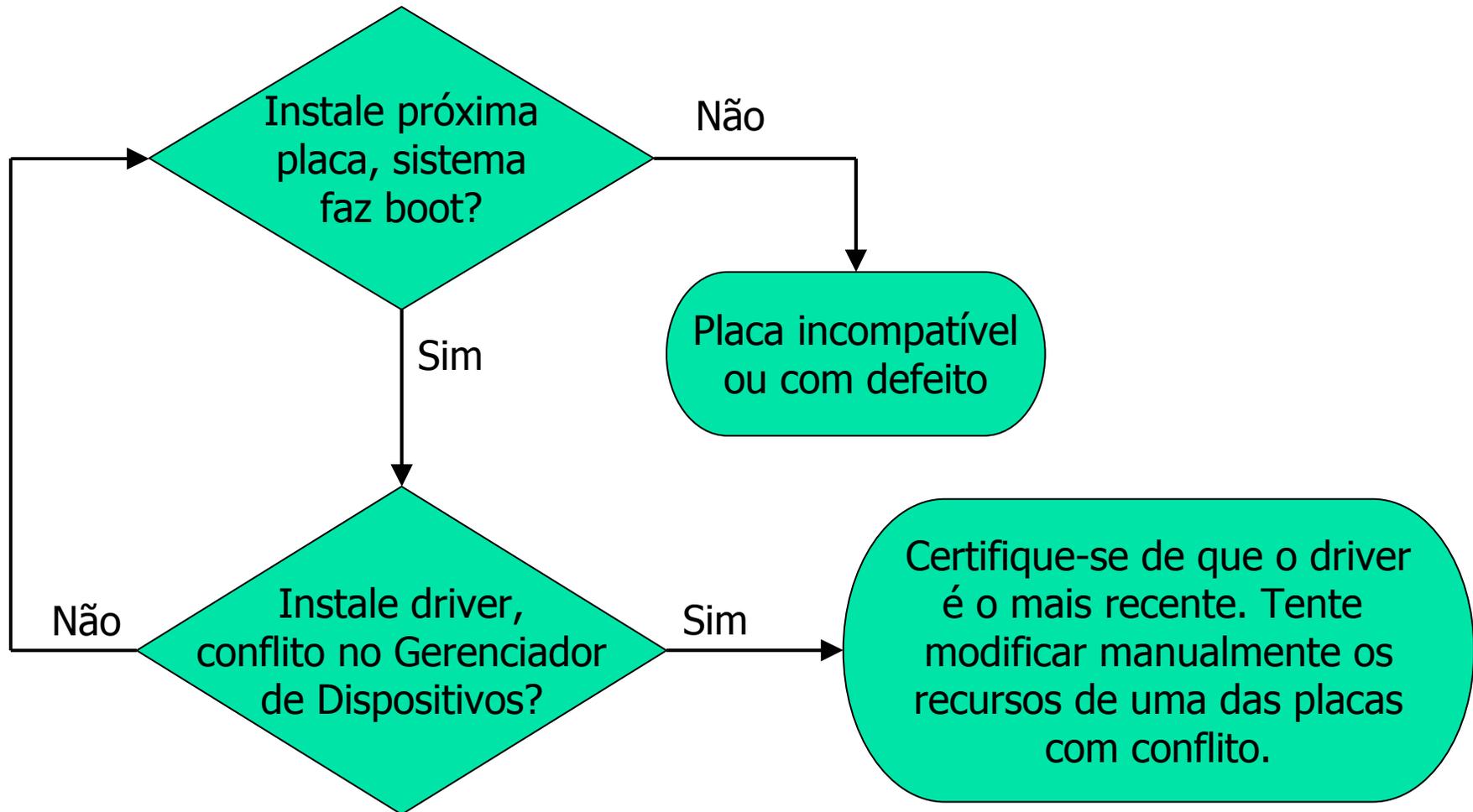
# Solução de Conflitos



# Solução de Conflitos



# Solução de Conflitos



# Perguntas?

---

