A new virus named “crypty” was found which encrypts the contents of the entire hard drive. Research team found that the virus has a byte sequence (signature) which appears on all the infected binaries they have investigated. They also found that the virus infects only ELF binaries found on Linux.

You were asked to write a program that finds all the infected binaries on a given directory.

As an input, the program gets 2 arguments:

1. Path to the root directory from which the search should be started

2. The name of a file which contains the detected signature as a raw data

The program should scan the directory given in the first argument and find all the ELF files that contain the signature from the file in the second argument

The program should alert the user if any infection was found.

Running example:

$ find\_sig /usr/bin crypty.sig

Scanning started...

  File /usr/bin/ls is infected!

  File /usr/bin/sys/prog1 is infected!