



# Surreptitious Software

## Exercise

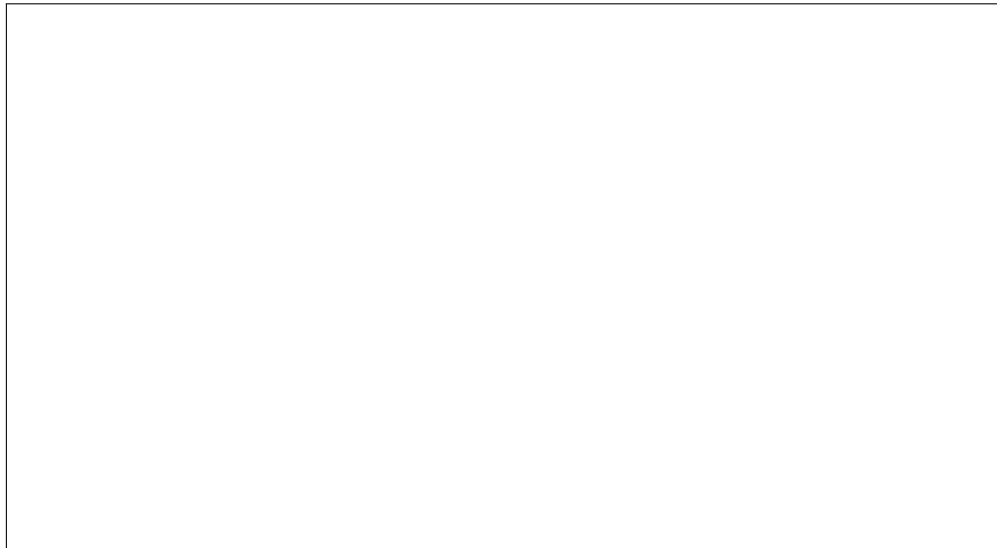
### Attacks Decompilation

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## Crack — Discover major algorithms

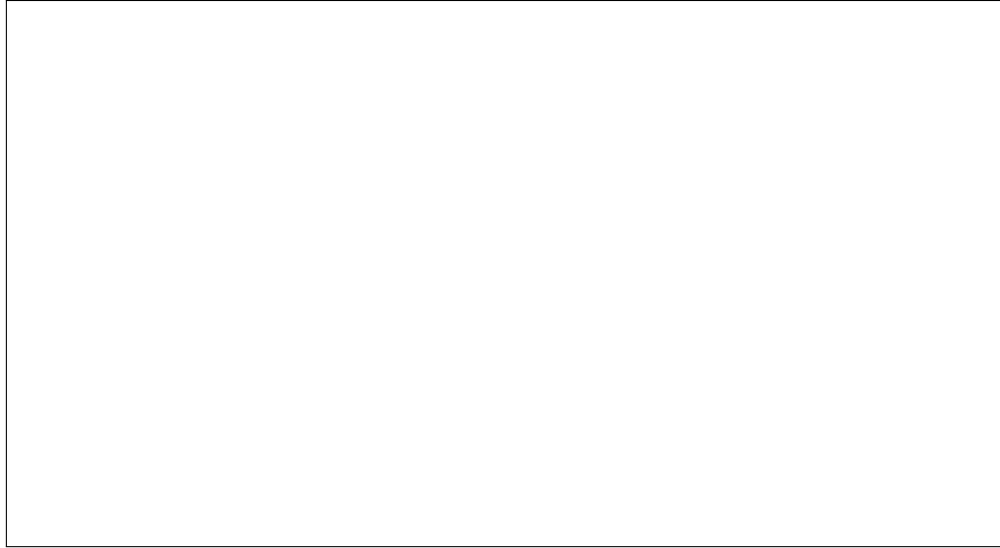
Have a look at the file `player-decompiled.c` provided to you. It's the output of a decompiler (called REC). Examine the code carefully. The original program contains all the different protection methods we discussed in the previous exercises.

1. Can you find them all in the decompiled code?



2. What can you learn about the “decryption” function?





## Prerequisites

Before working the exercise make sure you download, install, and build the following:

1. Install the following tools:

tool	url	Linux	MacOS X	Windows
gcc		✂ gcc build-essential		
REC	<a href="http://www.backerstreet.com/rec/rec.htm">www.backerstreet.com/rec/rec.htm</a>		N/A	N/A

2. Download program and data files:

- (a) `wget 'http://www.cs.arizona.edu/~collberg/tmp/ssx.zip'`
- (b) `unzip ssx.zip`
- (c) `cd ssx/attack-defense_attack4`

3. Install the following tools:

4. Build the `player2` executable which you will be working on from now on:

```
> make
```