Pwn Challenge (15 points)

The latest release of our acclaimed online key-value store is finally out. Our security experts have worked hard on the implementation of the ':' prefix for secret keys, and now it is safer than ever. Try it with 'nc host port'.
Release notes for v1.1: fixed a bug that might lead to the creation of duplicate keys.
The source code is available here: https://lettieri.iet.unipi.it/hacking/2022-09-22.tar.gz

You can request two hints on the solution:

- Hint #1: Analysis of the bug. Cost: -2 points.

- Hint #2: Attack Plan. Cost: -3 points.

Web Challenge (15 points)

Spiderman is a website that provides you information about the most (in)famous Spiderman's enemies by searching their names. Hidden somewhere inside the site there is a secret flag, which will help the research to fight against health consequences of radioactive spiders' bytes.

You can request two hints on the solution:

- Hint #1. Vulnerability. Cost: -2 points.

- Hint #2. PHP code of the website. Cost: -3 points.