

# 5-1 攻防世界



3分

## 题目描述

题目给了一个二进制文件，

## 解题

使用 `xortool` 进行破解

`xortool`是一个多字节异或加密破解工具。安装方法

```
pip install xortool
```

```

ams@ubuntu:~/ws$ xortool cipher -c 00
The most probable key lengths:
  2: 12.2%
  5: 11.9%
  9: 9.8%
 13: 22.2%
 20: 6.8%
 22: 6.2%
 26: 12.8%
 30: 4.6%
 39: 7.8%
 52: 5.7%
Key-length can be 3*n
1 possible key(s) of length 13:
GOOD)UCKtoYOU
Found 0 plaintexts with 95.0%+ valid characters
See files filename-key.csv, filename-char_used-perc_valid.csv
ams@ubuntu:~/ws$ xortool cipher -c 20
The most probable key lengths:
  2: 12.2%
  5: 11.9%
  9: 9.8%
 13: 22.2%
 20: 6.8%
 22: 6.2%
 26: 12.8%
 30: 4.6%
 39: 7.8%
 52: 5.7%
Key-length can be 3*n
1 possible key(s) of length 13:
Good\tuckToYou
Found 1 plaintexts with 95.0%+ valid characters
See files filename-key.csv, filename-char_used-perc_valid.csv

```

得到Key: GoodLuckToYou

编写脚本对文件解密

Python

```

1 key = 'GoodLuckToYou'
2 flag = ''
3 with open('cipher') as f:
4     con = f.read()
5     for i in range(len(con)):
6         flag += chr(ord(con[i]) ^ ord(key[i%13]))
7 print(flag)

```

```
ams@ubuntu:~/ws$ python exp.py
```

The opening line of the novel famously announces: "It is a truth universally acknowledged, that a single man in possession of a good fortune must be in want of a wife." This sets marriage as a central subject—and really, a central problem—for the novel generally. Readers are poised to question whether or not these single men are, in fact, in want of a wife, or if such desires are dictated by the "neighbourhood" families and their daughters who require a "good fortune". Marriage is a complex social activity that takes political economy, and economy more generally, into account. In the case of Charlotte Lucas, for example, the seeming success of her marriage lies in the comfortable economy of their household, while the relationship between Mr and Mrs Bennet serves to illustrate bad marriages based on an initial attraction and surface over substance (economic and psychological). The Bennets' marriage is one such example that the youngest Bennet, Lydia, will come to re-enact with Wickham, and the results are far from felicitous.

`wdflag{You Are Very Smart}` Though the central characters, Elizabeth and Darcy, begin the novel as hostile acquaintances and unlikely friends, they eventually work to understand each other and themselves so that they can marry each other on compatible terms personally, even if their "equal" social status remains fraught. When Elizabeth rejects Darcy's first proposal, the argument of only marrying when one is in love is introduced. Elizabeth only accepts Darcy's proposal when she is certain she loves him and her feelings are reciprocated. Austen's complex sketching of different marriages ultimately allows readers to question what forms of alliance are desirable, especially when it comes to privileging economic, sexual, companionate attraction.