

# HW4

助教：

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# HW4

# Frieren and her treasure chests

# Description

A long, long time ago, there was a hero squad that defeated the devil. The party included an elf named Frieren, Himmel the brave, and their team.



Frieren often encountered mimic chests in dungeons and got trapped.



One day, they found several items that were good for storing treasures and looked like treasure chests, so they stuffed them into their backpack.



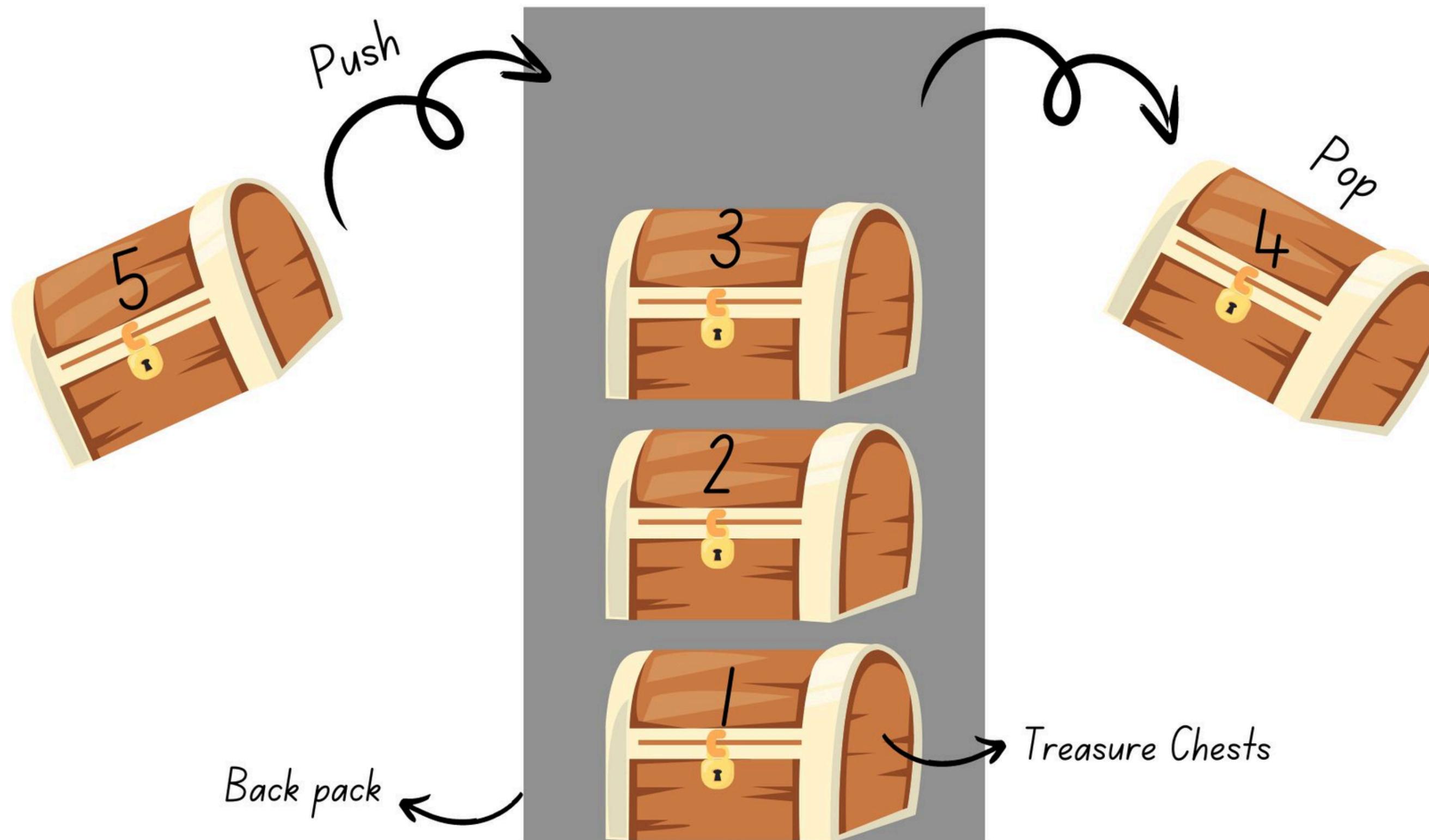
Later, Frieren discovered that the order of the treasures in the chests had been shuffled, but they seemed to have been sorted by their value.

One treasure chest can hold up to three items at most.

EX



Moreover, since they were placed in the backpack, the last chest placed could be taken out first, and the first chest placed could only be taken out last.



To make it easier to use,  
please help write a program that simulates  
taking these chests out of the backpack and  
the order of the treasures within them.

Would you like help with writing the program as well?





IT  
MEANS  
HIMMEL  
THE HERO  
WOULD  
HAVE DONE  
THE SAME.

# Input

- Some Items which are pairs of **name: string** and their **value: integer**.

# Output

- For each treasure chest in backpack have to show their number on first line.
  - Backpack: <num\_of\_treasure\_chest>
- One backpack can hold up to **three** items.
- Show every items and its value which in the backpack.
  - <name>: <value>
- Must make a new line after print out all of the items in the backpack.

## Sample Input 1

```
bullion 50
jewel 80
Data_Structure_credit 100
my_poor_little_cockroach 0
cat 100
dog 99
```

## Sample Output 1

```
Backpack: 2
cat: 100
dog: 99
my_poor_little_cockroach: 0
```

```
Backpack: 1
Data_Structure_credit: 100
jewel: 80
bullion: 50
```

# 作業規定

- 分數：7%
- 密碼：11271211
- OJ 網址: <https://nlp.csie.ntust.edu.tw:2021/contest>
- OJ 截止日期：**2024/12/11 11:00** (截止前無限制上傳次數)
- 請將上傳到OJ的程式碼壓縮成 zip 檔，並命名為「學號\_姓名.zip」(例如：  
b1234567890\_王小明.zip)上傳至 Moodle，**遲交 0 分。**
- 程式語言開放使用 C (gcc 5.4)、C++ (g++ 5.4)，除了標準輸入輸出 (例如：stdio.h)和字串  
(例如：string.h)相關的 library，**請勿使用其他 library，請自行實作基礎資料結構。**
- **請勿抄襲他人程式碼**