

## Problem 2. Dungeonest Dark

*As a young adventurer, you seek gold and glory in the darkest dungeons there are.*

You have **initial health 100** and **initial coins 0**. You will be given a **string, representing the dungeons rooms**. Each room is separated with '|' (vertical bar): "**room1|room2|room3...**"

Each room contains item or a monster and a number, separated by space. ("**item/monster number**")

- If the first part is "**potion**": you are healed with the number in the second part. But your health **cannot exceed** your **initial health (100)**. Print: "**You healed for {0} hp.**".  
After that, print your current health: "**Current health: {0} hp.**".
- If the first part is "**chest**": You've found some coins, the number in the second part. Print: "**You found {0} coins.**".
- In any other case you are facing a monster, you are going to fight. The second part of the room, contains the attack of the monster. You should remove the monster's attack from your health.
  - If you are not dead (health >= 0) you've slain the monster, and you should print ("**You slayed {monster}.**")
  - If you've died, print "**You died! Killed by {monster}.**" and your quest is over. Print the best room you've manage to reach: "**Best room: {room}.**".

If you managed to go trough all the rooms in the dungeon, print on the next three lines:

"**You've made it!**", "**Coins: {coins}**", "**Health: {health}**".

## Input / Constraints

You receive a string, representing the dungeons rooms, separated with '|' (vertical bar): "**room1|room2|room3...**".

## Output

Print the corresponding messages, described above.

## Examples

Input	Output
rat 10 bat 20 potion 10 rat 10 chest 100 boss 70 chest 1000	You slayed rat. You slayed bat. You healed for 10 hp. Current health: 80 hp.

	<p>You slayed rat.</p> <p>You found 100 coins.</p> <p>You died! Killed by boss.</p> <p>Best room: 6</p>
Input	Output
<p>cat 10 potion 30 orc 10 chest 10 snake 25 chest 110</p>	<p>You slayed cat.</p> <p>You healed for 10 hp.</p> <p>Current health: 100 hp.</p> <p>You slayed orc.</p> <p>You found 10 coins.</p> <p>You slayed snake.</p> <p>You found 110 coins.</p> <p>You've made it!</p> <p>Coins: 120</p> <p>Health: 65</p>

*...! a game where every hero wins the day with shiny armor and a smile...*