Problem Description

Problem:

You are in your house wearing pajamas. You must be appropriately dressed for the temperature before leaving your house.

Your challenge is to programmatically process a list of commands for getting ready, enforce related rules, and display appropriate output.

Inputs:

1. Temperature Type (one of the following)
   * HOT
   * COLD
2. Comma separated list of numeric commands

|  |  |  |  |
| --- | --- | --- | --- |
| Command | Description | HOT Response | COLD Response |
| 1 | Put on footwear | “sandals” | “boots” |
| 2 | Put on headwear | “sun visor” | “hat” |
| 3 | Put on socks | fail | “socks” |
| 4 | Put on shirt | “t-shirt” | “shirt” |
| 5 | Put on jacket | fail | “jacket” |
| 6 | Put on pants | “shorts” | “pants” |
| 7 | Leave house | “leaving house” | |
| 8 | Take off pajamas | “Removing PJs” | |

Rules:

* Initial state is in your house with your pajamas on
* Pajamas must be taken off before anything else can be put on
* Only 1 piece of each type of clothing may be put on
* You cannot put on socks when it is hot
* You cannot put on a jacket when it is hot
* Socks must be put on before shoes
* Pants must be put on before shoes
* The shirt must be put on before the headwear or jacket
* You cannot leave the house until all items of clothing are on (except socks and a jacket when it’s hot)
* If an invalid command is issued, respond with “fail” and stop processing commands

Examples

Success

Input: HOT 8, 6, 4, 2, 1, 7  
Output: Removing PJs, shorts, t-shirt, sun visor, sandals, leaving house

Input: COLD 8, 6, 3, 4, 2, 5, 1, 7  
Output: Removing PJs, pants, socks, shirt, hat, jacket, boots, leaving house

Failure

Input: HOT 8, 6, 6  
Output: Removing PJs, shorts, fail

Input: HOT 8, 6, 3  
Output: Removing PJs, shorts, fail

Input: COLD 8, 6, 3, 4, 2, 5, 7  
Output: Removing PJs, pants, socks, shirt, hat, jacket, fail

Input: COLD 6  
Output: fail