

# Directions

**Please submit your solution in .NET using C# and provide all source, test and build support files. If you are not familiar with .NET and C# please use Java.** The project structure is up to you, but assume that this code will be deployed to production and your peers will be maintaining the code going forward.

## 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"	"leaving house"
8	Take off pajamas	"Removing PJs"	"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

## Criteria

You will primarily be judged on the code directly related to the implementation of the stated problem and business rules:

- Use of Object Oriented Principles
- Code Legibility
- Ease of Maintenance
- Use of recognizable best practices and patterns

- Submission of a compiling and fully working solution
- Correct implementation of business rules

Secondary evaluation criteria includes the usage and evident knowledge of the tools, utilities, frameworks, and methodologies specified in the job description.

We value creativity and initiative to learn new technology; however, be advised that candidates that focus solely on the primary criteria will be more successful than candidates that focus instead on intricate UI and usage of a breadth of technologies.