

Test Data

我们用3*4 的map为例

程序首先输出:

```
Make sure that the total number of rooms is more than 3 (x * y >= 3),
Please enter the length and width of the map:
```

```
1 | Make sure that the total number of rooms is more than 3 (x * y >= 3),
2 | Please enter the length and width of the map:
```

输入

```
1 | 3 4
```

输出初始地图:

```
[.....] [.....] [.....]
[.....] [.....] [.....]
[.....] [.....] [.....]
[.....] [..Lobby..]<-- [.....]
Welcome to the lobby.
There are 3 exits: west, east and north.Enter your command: █
```

程序提示:

```
1 | welcome to the lobby.
2 | There are 3 exits: west, east and north.Enter your command:
```

假设我们输入 go north,

输出:

```
[.....] [.....] [.....]
[.....] [.....] [.....]
[.....] [..cell..]<-- [.....]
[.....] [..Lobby..] [.....]
There are 4 exits: east, west, south and north.Enter your command: █
```

假设我们输入 go west

输出:

```
There are 3 exits: east, west, south and north.Enter your command:
[.....] [.....] [.....]
[.....] [.....] [.....]
[..cell..]<-- [..cell..] [.....]
[.....] [..Lobby..] [.....]
There are 3 exits: east, south and north.Enter your command: █
```

假设我们此时输入 go nores (这是一种错误输入)

输出:

```
Invalid Input!  
Please input go east/west/north/south again:  
█
```

(程序提示你重新输入)

那我们输入 `go north`

输出:

```
[.....]      [.....]      [.....]  
[..cell...]<-- [.....]      [.....]  
[..cell...]      [..cell...]      [.....]  
[.....]      [..Lobby..]      [.....]  
There are 3 exits: east, west and south.Enter your command: █
```

..... (n次输入)

此时我们找到了公主:

```
[..cell...]      [..cell...]      [..cell...]  
[..cell...]      [princess.]<-- [..cell...]  
[..cell...]      [..cell...]      [.....]  
[.....]      [..Lobby..]      [.....]  
Wow! You find the princess!  
Princess :My brave knight, please bring me out.  
Now your task is to bring princess out!
```

两次输入 `go south` 之后, 回到lobby, 游戏成功:

```
[..cell...]      [..cell...]      [..cell...]  
[..cell...]      [princess.]      [..cell...]  
[..cell...]      [..cell...]      [.....]  
[.....]      [..Lobby..]<-- [.....]  
Well done!  
You take princess out successfully!  
You win the game~ The knight lively happyly with the princess finally!  
The game is closed.
```