

A // Colossal Cup Castle

Zhehai is trying to build a Castle of Cups for himself to do the CCC in. However, Zhehai is very picky about his castle. It has to be symmetrical in how it looks from the outer perspective. For example a Castle that would make Zhehai happy would look like:

```
1o1
```

On the other hand a castle that would make Zhehai unhappy would look like:

```
|._0_.|<0>|._0_.|
```

Input Specification:

Given a string of characters representing Zhehai's castle, predict whether Zhehai is happy or unhappy. (*HINT: racecar*)

Output Specification:

If the given string makes Zhehai happy, output *"Happy Zhehai"*; otherwise, output *"Unhappy Zhehai"*.

Sample Input:

```
|._0_.|0|._0_.|
```

Sample Output:

```
Happy Zhehai
```

Sample Input:

```
|._0_.|<0>|._0_.|
```

Sample Output:

```
Unhappy Zhehai
```