## Output for part 1:

```
| Kermit12 × | "C:\Users\skeha\AppData\Local\Programs\Eclipse | lsXcRAuN | Process finished with exit code 0
```

## Output 2:

```
Match found: 977984261343652499
vJ90ePjV
Process finished with exit code 0
```

## Code solution:

Problem 1: we create an for loop to loop through 10000 times to find the end value for Kermit12

Problem 2: we create a for loop to loop through the array 10 times in order to find the hash values for the start values by checking each res value to see if they match.

```
public RainbowTable() {
reduction hash function
                            System.out.printf("Match found: %d\n", res);
```

```
filler = new
String("ABCDEFGHABCDEFGHABCDEFGHABCDEFGHABCDEFGHABCDEFGHABCDEFGH");
String("0123456789ABCDEFGHIJKLMNOPQRSTUNVXYZabcdefghijklmnopqrstuvwxyz!#");
```