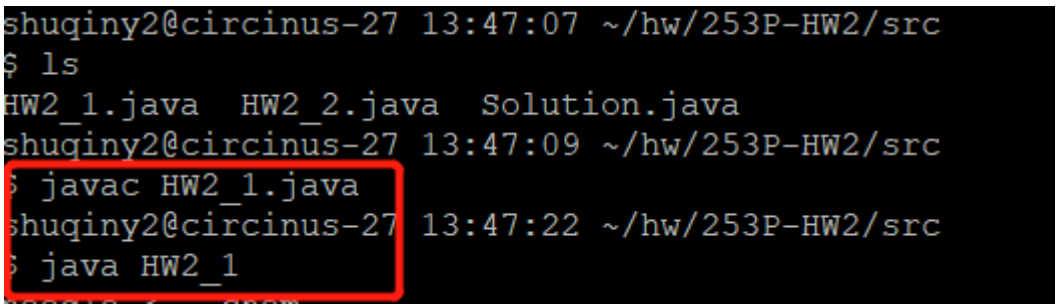
HW 2.1

Compile



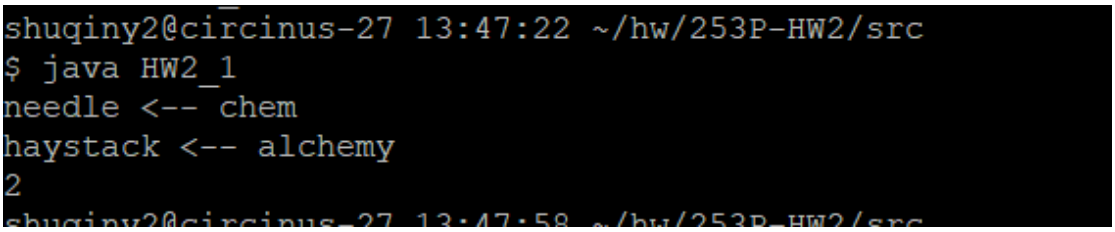
Test case 1 (the provided example from the assignment)

input:

```
needle <-- chem
haystack <-- alchemy
```

output:

```
2
```



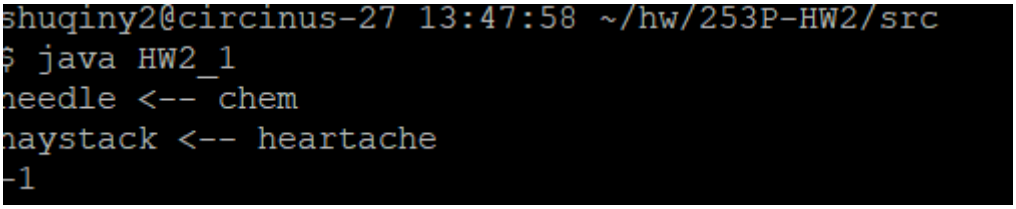
Test case 2(the provided example from the assignment)

input:

```
needle <-- chem
haystack <-- heartache
```

output:

```
-1
```



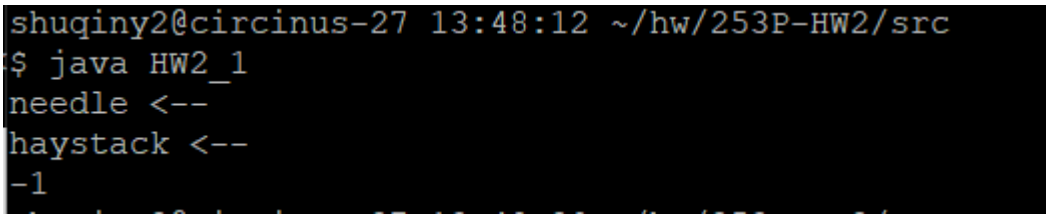
Test case 3

input:

```
needle <-- “”   // empty String
haystack <-- “”  // empty String
```

output:

```
-1
```



Test case 4

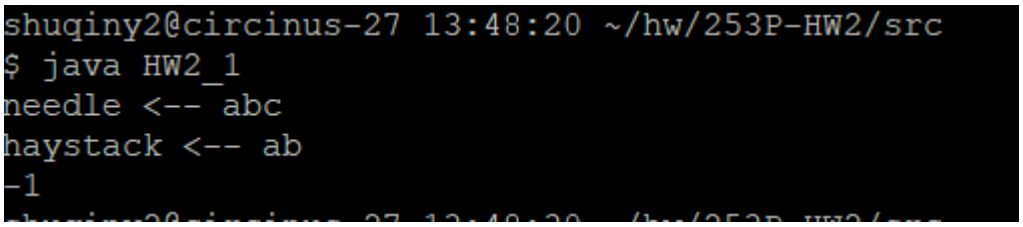
input:

needle <-- abc

haystack <-- ab

output:

-1



Test case 5

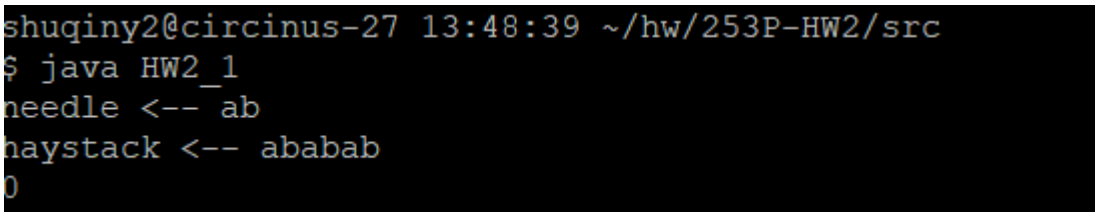
input:

needle <-- ab

haystack <-- ababab

output:

0



HW 2.2

Compile

```
shuqiny2@circinus-27 13:48:46 ~/hw/253P-HW2/src
$ javac HW2_2.java
shuqiny2@circinus-27 13:53:08 ~/hw/253P-HW2/src
$ java HW2_2
needle <-- na
```

Test case 1 (the provided example from the assignment)

input:

```
needle <-- na
haystack <-- bananas
```

output:

```
2
```

```
shuqiny2@circinus-27 13:53:08 ~/hw/253P-HW2/src
$ java HW2_2
needle <-- na
haystack <-- bananas
2
```

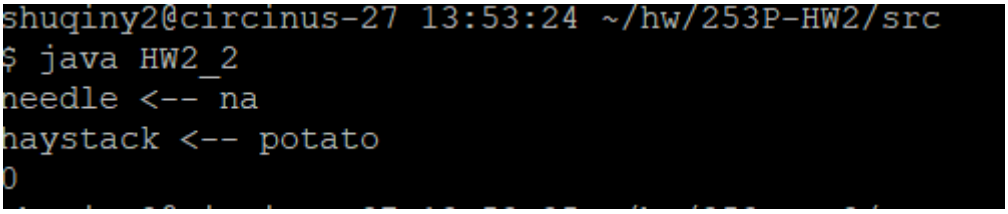
Test case 2 (the provided example from the assignment)

input:

```
needle <-- na
haystack <-- potato
```

output:

```
0
```



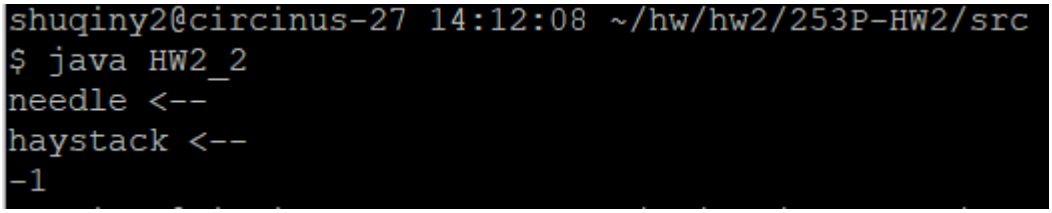
Test case 3

input:

```
needle <-- “”
haystack <-- “”  // Empty String
```

output:

-1



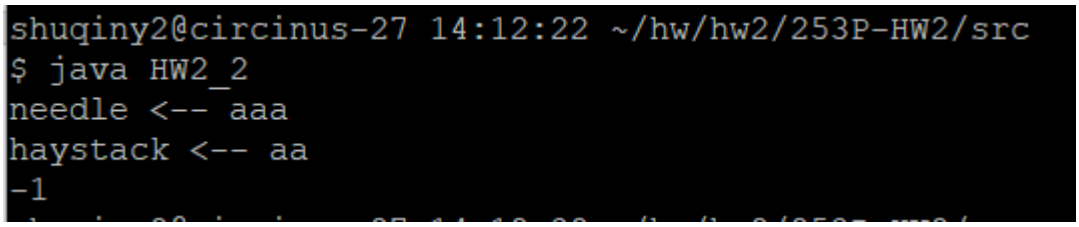
Test case 4

input:

needle <-- aaa
haystack <-- aa

output:

-1



Test case 5

input:

needle <-- bab

haystack <-- abababab

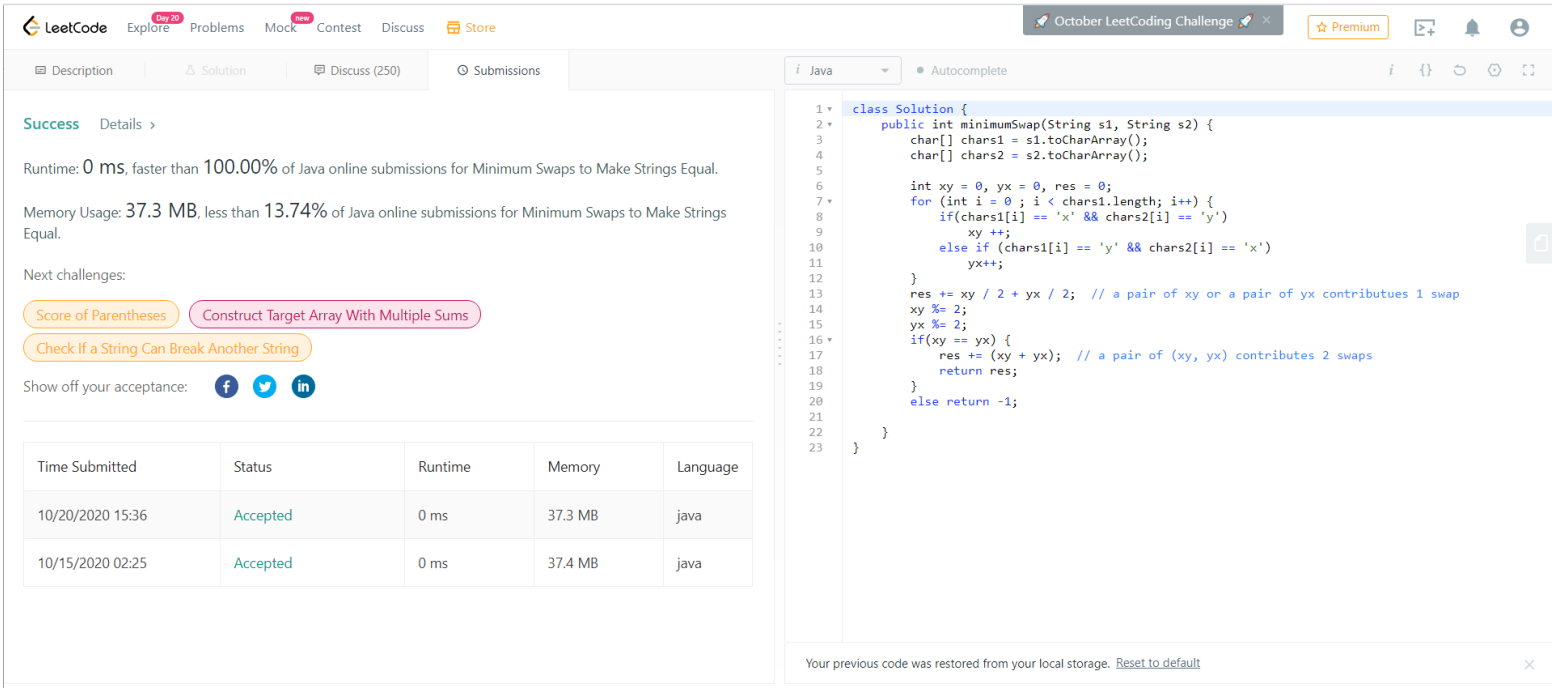
output:

3

```
shuqiny2@circinus-27 14:12:32 ~/hw/hw2/253P-HW2/src
$ java HW2_2
needle <-- bab
haystack <-- abababababa
3
```

HW 2.3

Substitute by LeetCode # 1247, String related, medium



HW 2.4

Substitute by LeetCode # 481, string related, medium