

A decorative graphic on the left side of the slide consisting of white and light blue lines that resemble a circuit board or a tree structure, with small circles at the ends of the branches.

HOMEWORK 04

GOOD LUCK ON YOUR MIDTERMS!!!

GOAL 01 (30PT)

- Each group of test data has one line containing multiple words, and each word is separated by a space (there may be spaces before and after each line, and there may be more than one space separating the words).
- Q: Please find all the words that contain only numbers and sum them up and output them.
- You must use [String Streams].

GOAL 01 (30PT)

- Example

```
Welcome to input
Maximum Drive
0 0 0
1a6f 6 65afd 15s 1ssa 12 115

None
0
221
```

GOAL 02 (40PT)

- Q: Create a program that accepts user input and uses it to create pyramids
- Pyramids must be **mirrored**.

GOAL 02 (40PT)

- Example

```
Welcome to input
abcdefghijklmnopqrstuvwxyz{

      a
     bcb
    cdedc
   defgfed
  efghihgfe
 fghijkjihgf
ghijklmlkjihg
hijklmnonmlkji
ijklmnopqponmlkji
jklmnopqrsrqponmlkj
klmnopqrstutsrqponmlk
lmnopqrstuvwvutsrqponml
mnopqrstuvwxyzxwvutsrqponm
nopqrstuvwxyz{zyxwvutsrqpon
```

GOAL 03 (30PT)

- In a string composed of 'L', 'R', and 'X' characters, like "RXXLRXRXL", a move consists of either replacing one occurrence of "XL" with "LX", or replacing one occurrence of "RX" with "XR".
- Q: Given the starting string start and the ending string end, return True if and only if there exists a sequence of moves to transform one string to the other.

GOAL 03 (30PT)

- Example

Input: start = "RXXLRXXRL", end = "XRLXXRRLX"

Output: True

Explanation:

We can transform start to end following these steps:

RXXLRXXRL ->

XXRLRXXRL ->

XRLRXXRL ->

XRLXXRRL ->

XRLXXRRLX

SUBMIT YOUR HOMEWORK

- Please make sure again that your code is ready to be compiled.
 - If it can't be compiled, it will not be corrected this time (0 points)
 - TA will try to inform you and ask you to make up for it.
 - After uploading, you still need to complete the DEMO within the specified time.
- Please Label each question clearly with the corresponding file.
 - Pack all the file into a folder named "s1234567_hw4".
 - Zip it and Upload to Portal.
 - Attach a s1234567_hw3.txt if u want to add some additional information to TA.

Warning : 10 points will be deducted if one of them is violated.

FIGHTING~~~

