**PROBLEMS**

1. **Shift Code**
2. **Order less Order**
3. **Share and Care**

**SHIFT CODE:**

Question:

There was a Father and Son named Tarun and Sunny who loves each other to the fullest. Tarun is a successful business man who deals with dollars and Sunny studies 6th class who has the best IQ among the students in his college. But the problem with sunny is he is so proud of his IQ and hence arrogant towards his teachers. During a parent teacher meeting his father came to know about this and he wanted to change his son. So, he asked his son what his problem was and in reply he told that it is not an issue to have an arrogance if he is clever and intelligent. His father wanted to teach him a lesson. Sunny is arrogant but obeys his fathers’ words.

His father gave him a task and promised him that if he hasn’t able to solve this in 3 hours. He should change his attitude and sunny obeys for it.

**TASK:**

Tarun gives his son sunny a number and he want an output that matches to his.

**Input Format:** a single integer n

**Constraints:** whole number less than 50

**Output Format:** string of characters.

**Sample Test Cases:**

**Input 1:**

7

**Output:**

\*%#@!!)

**Input 1:**

11

**Output:**

%%$#!@#!\*%#@!!)

**ORDER LESS ORDER:**

In a college called Hogwarts there is a professor named Venkat who is good at brain teaser questions. He has 2 best students in the college, Tarun and Sunny who are so competitive. One of them always gives right answers to every riddle of the professor. One day the principal of the Hogwarts asks him to give a name to declare student of the year 2019. Venkat was in dilemma because until now he has given 66 riddles and both solved same number of riddles first i.e., 33. So, he decides to give them a final riddle so that he can select the best.

Support your favorite contestant by giving the fastest answer.

**RIDDLE:**

Venkat has given alphabet string which has both lower- and upper-case letters in no order. They have constructed another string from them by following the rules below

1. Sort the string in alphabetical order without losing the order of upper-case and lower-case letters in the original string.
2. Group Them alphabetically in the same order.
3. Print group wise alphabetical string one from first and from last and so on.

Read the rules carefully its unorderly ordered!

**Input format:**

String with lower-case and upper-case letters.

**Output format:**

New string abiding the rules given above.

**Sample Testcase:**

**Input 1:**

aCbhIHdcA

**Output:**

aAIbhHCcd

**Input 2:**

aFcohitaRUNTsSuAIu

**Output:**

aaAUuuctTFsShRiIoN

**SHARE AND CARE:**

3 friends named Tarun, Venkat and Sunny went to a movie in Imax where the rates were so high that they shared everything because they care. But at the end of the day repayment will be done if any. But on that day the no of transactions they done are so high that they were not able to estimate by how much they should have repaid each other. So they decided to create a application called share and care where they have to enter the no of friends, no of transactions, next lines will be each transaction by the person and next to it will be the amount. After filling these all they must get the amount they have to repay to each other in a matrix where columns should pay to rows.

But the trick here is that the amount should be rounded to the nearest integer and the amount displayed in the matrix should follow the function called **yesno** which is mentioned below.

**Function yesno()**

If the amount is 178 then it should print Y in that amount place.

Explanation:

1<=7+8;7<=1+8;8<=1+7

If the amount is 120128 then it should print N in the amount place.

**Input Format:**

First line will have no of friends n.

Next line will have no of transactions m.

Next m lines will have space separated friend number and the amount he spent.

**Output Format:**

nxn matrix

where rows are space separated which have Y and N.

**Sample Testcase:**

**Input 1:**

3

6

2 62

3 33

3 369

1 234

2 30

2 966

**Output:**

T T T

T T F

F T T

**Explanation:**

After all the repayments the amounts are changed to yesno format

**Input 2:**

4

8

3 404

2 589

1 156

4 897

2 897

4 1578

1 589

3 1236

**Output:**

T T T T

F T T T

T F T T

T F F T

**Explanation:**

After all the repayments the amounts are changed to yesno format

Hello,

We welcome you to the event of the semester “CODE3000”. It is our **second** challenge in this contest.It is the coding event launched by pragati to know the best of the best coders of pragati. It is a 4-hour challenge which will be held today between 8 pm to 12pm.

It is best to login to the link below, 20 min before. Make sure you have active internet connection before starting the test.

The hackerrank link is: [www.hackerrank.com/code3000](https://www.hackerrank.com/code3000)

Post this link in your class whatsapp group if already posted neglect it.

Think Hard, Code Smart.

Thank You.