

Academic Year 2019-2020

C++ / Competitive Programming

Assignment No. 2

Q1. For a given number 'n', print the following pattern:

For n=4:



Q2. For a given number 'n', print the following pattern:

For n=5:

```
1 2 3 4 5
1 2 3 4 *
1 2 3 * * *
1 2 * * * * * *
1 * * * * * * *
```

- Q3. Make a calculator program. Whats and Hows are totally based on you and your creativity.
- Q4. Given a string, check whether it is a palindrome or not. A palindromic string is one which when read from

either sides, is read the same. For example "madam", 12321, "level".

- Q5. You have 2 variables, swap their values. Whats and Hows are totally based on you and your creativity.
- Q6. Input 2 matrices of NxM dimensions and print their sum.
- Q7. Keep taking numbers input from user till the cumulative product of these numbers does not descend -1.
- Q8. You are given alist of numbers that contains only 0s and 1s. Write a program to sort this list in ascending order. Find a solution which scans the list only once. Don't take help of any extra list for your solution. This means you need to change in the given array itself.

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