

1. Given a string of four characters and three of those characters, find the missing character.

Input :

**abcd a b d**

Output :

**c**

2. Given the product of four numbers and three of those numbers, find the missing number. All four numbers are positive integers.

Input :

**75 1 3 5**

Output :

**5**

3. You will be given a matrix of size  $N * N$ . You need to tell if it is scalar matrix or not.

Input :

**3**

**5 0 0**

**0 5 0**

**0 0 5**

Output :

**Yes**

Input :

**3**

**5 0 3**

**0 5 0**

**0 0 5**

Output :

**No**

4. You will be given a 2D matrix of A \* B size. You need to print the values of 2nd row and then print the values of 3rd column.  $2 \leq A, B \leq 100$

Input :

```
3 4
1 2 3 4
5 6 7 8
6 5 4 2
```

Output :

```
5 6 7 8
3 7 4
```

5. You will be given array. You need to count number of even, odd, divisible by both three and five numbers separately.

6. Write a C program that will take an integer N and creates this pattern for the corresponding inputs.

5

```
1      #
2     123
3    #####
4   1234567
5  #####
```

7. Alisha and Bidisha wants to play a guessing game. There will be A rounds and each time they will choose one character respectively. whoever guesses the larger number will win that round. The final winner will be the one who wins the most rounds.

5

A B

a D

D E

Z Q

A B

Output :

Bidisha