

S.No: 18	Exp. Name: <i>given a list of n numbers, Design an algorithm which prints the number of stars equivalent to the value of the number. The stars for each number should be printed horizontally.</i>	Date:2023-04-03
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Aim:

Take a list of n numbers, Design an algorithm which prints the number of stars equivalent to the value of the number. The stars for each number should be printed horizontally.

Sample input output

Sample input output -1:

```
Enter the number of numbers: 6
Enter number 1: 4
Enter number 2: 6
Enter number 3: 9
Enter number 4: 5
Enter number 5: 2
Enter number 6: 6
****
*****
*****
*****
**
*****
```

Sample input output -2:

```
Enter the number of numbers: 4
Enter number 1: 4
Enter number 2: 2
Enter number 3: 1
Enter number 4: 3
****
**
*
***
```

Note: Do use the printf() function with a newline character (\n) at the end.

Source Code:

star.c

```
#include<stdio.h>
main()
{
    int i,j,n,a[10];
    printf("Enter the number of numbers: ");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        printf("Enter number %d: ",i+1);
        scanf("%d",&a[i]);
    }
}
```

```

for(i=0;i<n;i++)
{
    for(j=1;j<=a[i];j++)
    {
        printf("*");
    }
    printf("\n");
}
}

```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the number of numbers: 6
Enter number 1: 4
Enter number 2: 6
Enter number 3: 9
Enter number 4: 5
Enter number 5: 2
Enter number 6: 6

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Test Case - 2
User Output
Enter the number of numbers: 5
Enter number 1: 5
Enter number 2: 4
Enter number 3: 3
Enter number 4: 2
Enter number 5: 1

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