

L8 : Test 1

1-Question : Number Star pattern 1

[Send Feedback](#)

Print the following pattern for a given number of rows.

Input format :

Integer N (Total number of rows)

Output Format : Pattern in N lines

Sample Input : 5

Sample Output :

```
5432*
543*1
54*21
5*321
*4321
```

```
1. n=int(input())
2. for i in range(1,n+1):
3.     for j in range(n,0,-1):
4.         if j==i:
5.             print("*",end="")
6.         else:
7.             print(j,end="")
8.     print()
```

2-Question : Zeros and Stars Pattern

[Send Feedback](#)

Print the following pattern

Pattern for N = 4

```
*000*000*
0*00*00*0
00*0*0*00
000***000
```

Input Format : N (Total no. of rows)

Output Format : Pattern in N lines

Sample Input 1 : 3

Sample Output 1 :

```
*00*00*
0*0*0*0
00***00
```

Sample Input 2 :5

Sample Output 2 :

```
*0000*0000*  
0*000*000*0  
00*00*00*00  
000*0*0*000  
0000***0000
```

1. `## Read input as specified in the question.`
2. `## Print output as specified in the question.`
3. `n=int(input())`
4. `l=[[0]*(2*n+1) for i in range(n)]`
5. `for i in range(n):`
6. `for j in range(n):`
7. `if i==j:`
8. `l[i][j]="*"`
9. `for i in range(n):`
10. `l[i][n]="*"`
11. `#print(l)`
12. `for i in range(n):`
13. `for j in range(2*n+1):`
14. `if i+j==2*n:`
15. `l[i][j]="*"`
16. `for i in l:`
17. `for j in i:`
18. `print(j,end="")`
19. `print()`

3-Question : Check Armstrong

[Send Feedback](#)

Write a Program to determine if the given number is Armstrong number or not. Print true if number is armstrong, otherwise print false.

An Armstrong number is a number (with digits n) such that the sum of its digits raised to nth power is equal to the number itself.

For example,

371, as $3^3 + 7^3 + 1^3 = 371$

1634, as $1^4 + 6^4 + 3^4 + 4^4 = 1634$

Input Format :Integer n

Output Format :true or false

Sample Input 1 :1

Sample Output 1 :true

Sample Input 2 :103

Sample Output 2 :false

1. ## Read input as specified in the question.
2. ## Print output as specified in the question.
3. ## Print output as specified in the question.
4. n=input()
5. l=list(n)
6. n=int(n)
7. x=len(l)
8. s=0
9. for i in l:
10. s+=int(i)**x
11. if s==n:
12. print("true")
13. else:
14. print("false")