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# PYTHON PROGRAMMING

Sikl operatorlari for va while

**ABRUISDEV**

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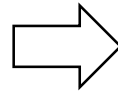
## 1.1 - misol

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- N butun sonni o'qing, N ning bo'luvchilarini chop eting

Kirish misoli 1

7

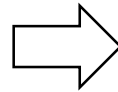


Chiqish misoli 1

1 7

Kirish misoli 2

18

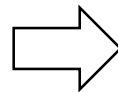


Chiqish misoli 2

1 2 3 6 9 18

Kirish misoli 3

23



Chiqish misoli 3

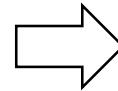
1 23

## 1.2 - misol

- N butun sonni o'qing. 1 dan N gacha butun sonlar yig'indisini chop eting.

Kirish misoli 1

10

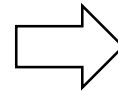


Chiqish misoli 1

55

Kirish misoli 2

33

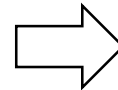


Chiqish misoli 2

561

Kirish misoli 3

40



Chiqish misoli 3

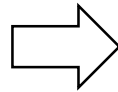
820

## 1.3 - misol

- N butun son o'qing, 2 dan N gacha faktoriallarni hisoblang

Kirish misoli

10



Chiqish misoli

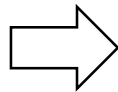
```
2!=1*2=2
3!=1*2*3=6
4!=1*2*3*4=24
5!=1*2*3*4*5=120
6!=1*2*3*4*5*6=720
7!=1*2*3*4*5*6*7=5040
8!=1*2*3*4*5*6*7*8=40320
9!=1*2*3*4*5*6*7*8*9=362880
10!=1*2*3*4*5*6*7*8*9*10=3628800
```

## 1.4 - misol

- N butun son o'qing, Quyida ko'rsatilgandek chop eting.

Kirish misoli

9



Chiqish misoli

1	2	3	4	5	6	7	8	9	0
2	3	4	5	6	7	8	9	0	1
3	4	5	6	7	8	9	0	1	2
4	5	6	7	8	9	0	1	2	3
5	5	7	8	9	0	1	2	3	4
6	7	8	9	0	1	2	3	4	5
7	8	9	0	1	2	3	4	5	6
8	9	0	1	2	3	4	5	6	7
9	0	1	2	3	4	5	6	7	8
0	1	2	3	4	5	6	7	8	9

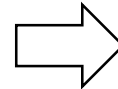
## 1.5 - misol

□ 10 dan katta yoki teng bo'lgan butun sonni o'qing. Butun sonning raqamlar yig'indisini hisonlang.

- $6234 = 6+2+3+4 = 15 = 1 + 5 = 6$

Kirish misoli 1

6234

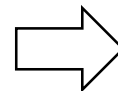


Chiqish misoli 1

6

Kirish misoli 2

123456789

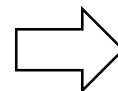


Chiqish misoli 2

9

Kirish misoli 3

40

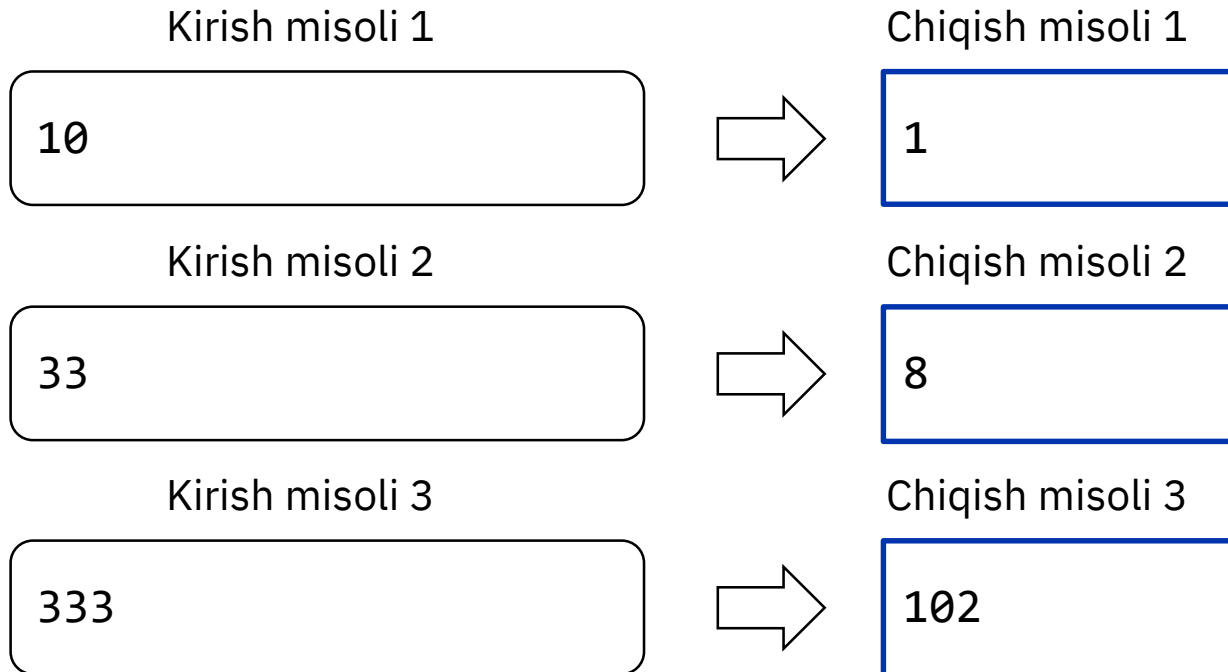


Chiqish misoli 3

4

## 1.6 - misol

- N butun sonini o'qing. 3 raqami 1 dan N gacha necha marta paydo bo'lishini hisoblang.
- 13 -> bitta
  - 33 -> ikkita

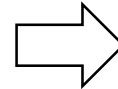


## 1.7 - misol

- N va M ikkita butun sonini o'qing. Eng katta umumiy maxrajni toping.
  - For loop yoki while loop dan foydalaning.

Kirish misoli 1

4 3

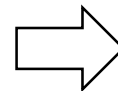


Chiqish misoli 1

1

Kirish misoli 2

16 24

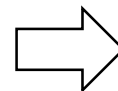


Chiqish misoli 2

8

Kirish misoli 3

27 36



Chiqish misoli 3

9



## 1.8 - misol

□ Son top o'yini. N raqamini o'qing (javob). Raqamni taxmin qiling va quyidagicha:

- Misol o'ylangan son(5)
- while tsiklidan foydalaning

Chiqish misoli

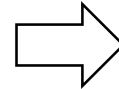
O'ylangan son	→	5
Kirish misol	→	10
10 dan kichik	→	10>
Kirish misol	→	3
3 dan katta	→	3<
Kirish misol	→	7
7 dan kichik	→	7>
Kirish misol	→	4
4 dan katta	→	4<
Kirish misol	→	5
Topdingiz!	→	5

## 1.9 - misol

- 0 ni olguncha bir qancha butun sonlarni o'qing. Hisoblang va butun sonlar yig'indisini chop eting.
  - while tsiklidan foydalaning

Kirish misoli 1

2 3 4 0

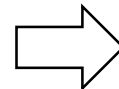


Chiqish misoli 1

9

Kirish misoli 2

3 2 1 0



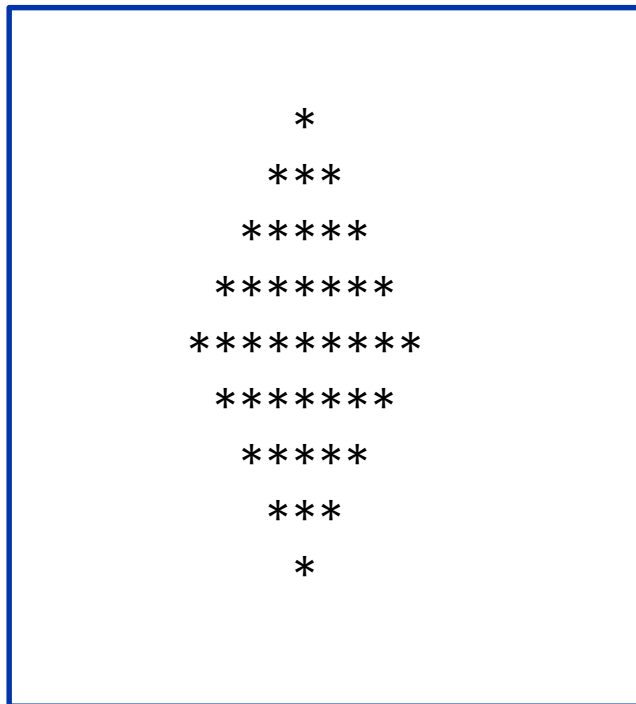
Chiqish misoli 2

6

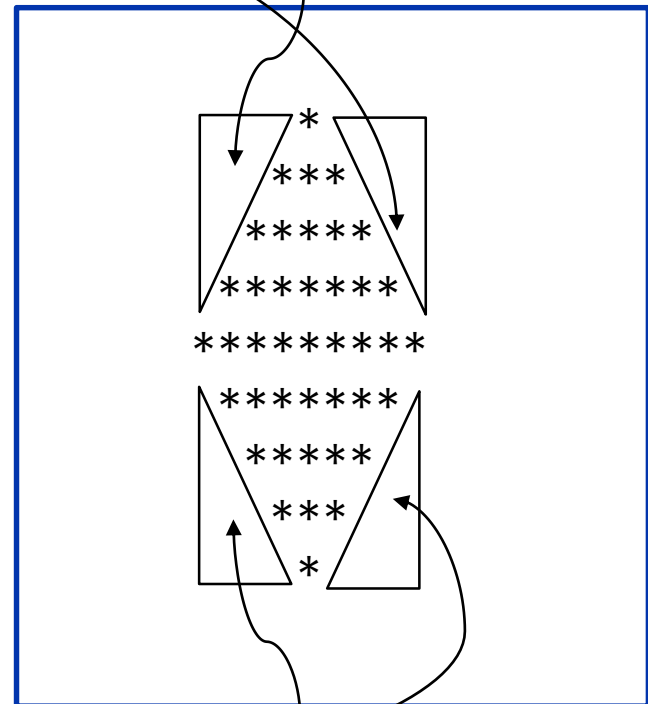
## 2.0 - misol

- Quyida ko'rsatilgandek chop etish uchun nested for sikllardan foydalaning:

Kirish misoli



*Bo'shliqlarni mos ravishda chop eting*

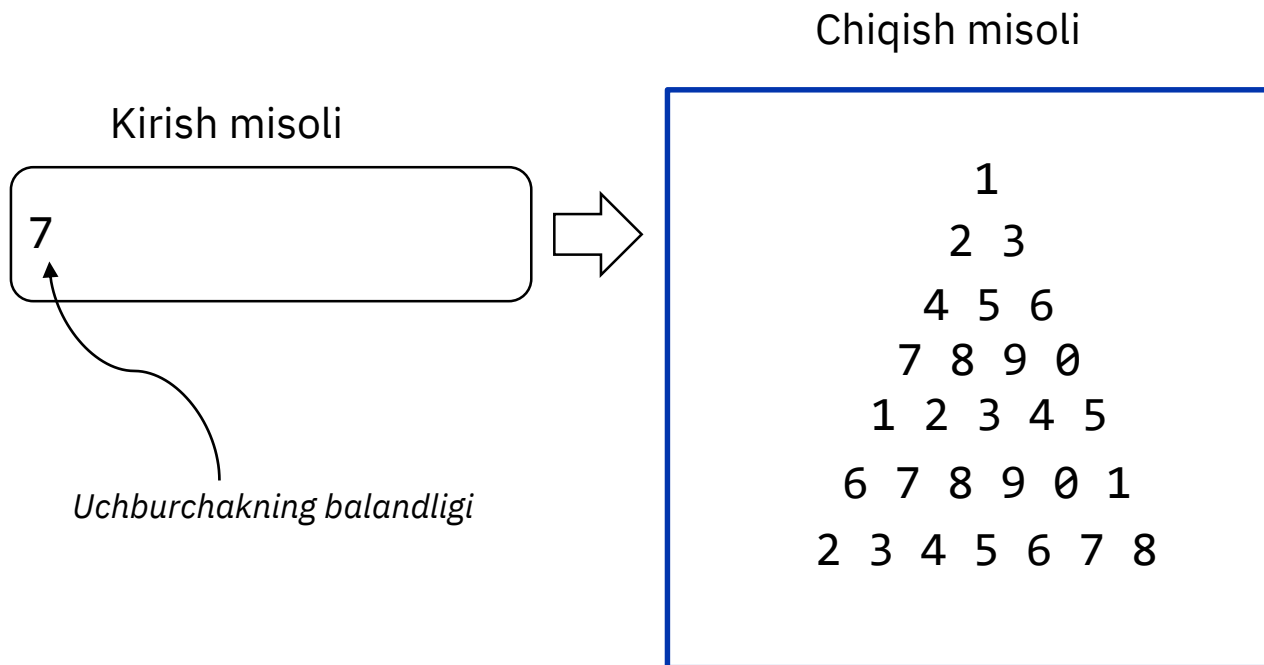


*Bo'shliqlarni mos ravishda chop eting*

ABRUISDEV

## 2.1 - misol

- N butun sonini o'qing. Quyida ko'rsatilgandek chop eting:



## 2.2 - misol

- Aytaylik, siz uchta zar (1 dan 6 gacha) chizdingiz. Ularning yig'indisi 10 ga teng bo'lgan barcha mumkin bo'lgan holatlarni chop eting.

Chiqish misoli

1 3 6  
1 4 5  
1 5 4  
1 6 3  
2 2 6  
2 3 5  
2 4 4  
2 5 3  
2 6 2  
3 1 6  
3 2 5  
3 3 4  
3 4 3  
3 5 2  
3 6 1  
4 1 5  
4 2 4  
4 3 3  
4 4 2  
4 5 1  
5 1 4  
5 2 3  
5 3 2  
5 4 1  
6 1 3  
6 2 2  
6 3 1