

СУ „Св. Климент Охридски“, ФМИ

„

Увод в програмирането, 2020-2021 г.

Задачи за домашно № 2

1.  $N$ ,  $N \in [3, 100]$ ,  
триъгълна,  
...  
; 2 3  
-  
; . ( ,  
) .  $N$   
 $N$  триъгълна.

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

2. , "Smashing Pyramid"  
 $N$  .  
 $N \in [3, 365]$   $N$  ,  
 $i$ ,  $[0.1, 100]$ .

"Smashing Pyramid",

$N$  .

Ограничение:

Вход	Изход	Пояснение
8 1 2 3 4 3 2 1 5	7	1 1- , 4 4- ( 3). 1 7- 5 8- ( 4). 7
5 15 14.5 10 7.45 5	0	.

Последна актуализация: 14.11.2020 г.

3. ,  $N \in [3, 1000]$   $N$   
 , 3, .  
 , -1.

Пояснение:  $k \cdot N$ ,  
 ( ).

Вход	Изход	Пояснение
4 1 2 2 1	1	1221
5 5 0 6 0 5	2	060 50605
10 1 3 8 3 1 4 5 4 1 4	5	383 13831 454 14541 414

4. ,  $N \in [3, 100]$   $N$   
 [-2147483648, 2147483647].  
 , 3

Пример:

Вход	Изход	Пояснение
3 1 2 3	0	, ,
3 1 1 1 1 1 1 1 1 2 1 1 1 -3	1	$1+2+(-3) = 0$
7 -1 0 1 1 2 3 4 3 -1 -2	3	$-1 + 0 + 1 = 0$ $-2 + 0 + 2 = 0$ $-2 + (-1) + 3 = 0$
7 -3 -2 -1 0 1 2 3	5	$-3 + 1 + 2 = 0$ $-3 + 0 + 3 = 0$ $-2 + (-1) + 3 = 0$ $-2 + 0 + 2 = 0$ $-1 + 0 + 1 = 0$

**Пояснения:**

1. 2,5 .
2. .
3. ,  
 , .
4. .
5. Visual  
C++ GCC
6. :  
fnXXXXX\_d2\_N\_CC.cpp, :  
XXXXX  
N  
CC  
"gcc" GCC "vc" Visual C++. .
7. ,  
zip , :  
UP\_20-21\_fnXXXXX\_d2.zip, XXXXX
8. ,  
 ,  
 ,  
 . .
9. , .
10. 0-127 ( ,  
!).
11. , ,  
 , - ,  
 , -  
 , ,  
 .

```
/**
 *
 * Solution to homework assignment 2
 * Introduction to programming course
 * Faculty of Mathematics and Informatics of Sofia University
 * Winter semester 2020/2021
 *
 * @author < a a a>
 * @idnumber < a a a a aa>
 * @task < aa a a a a>
 * @compiler < a a a - GCC VC>
 *
 */
```

2, GCC, : . . 12345,

```
/**
 *
 * Solution to homework assignment 2
 * Introduction to programming course
 * Faculty of Mathematics and Informatics of Sofia University
 * Winter semester 2020/2021
 *
 * @author Ivan Ivanov
 * @idnumber 12345
 * @task 2
 * @compiler GCC
 *
 */
```