Swap x and y

Problem | Submissions | Leaderboard | Discussions

Take two integers x and y as an integer input.

Then take an integer data-type variable c, and with the help of c variable swap x and y.

Process:

First assign value of x to c and print the string with the help of System.out.println("c = " + c),

Then, assign value of y to x and print the string with the help of System.out.println("x = " + x),

Then, assign value of c to y and print the string with the help of System.out.println("y = " + y).

In the next line print the string with the help of System.out.println("x = " + x),

In the next line print the string with the help of System.out.println("y = " + y).

Output Format

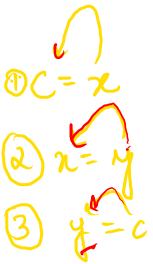
Print according to the problem statement.

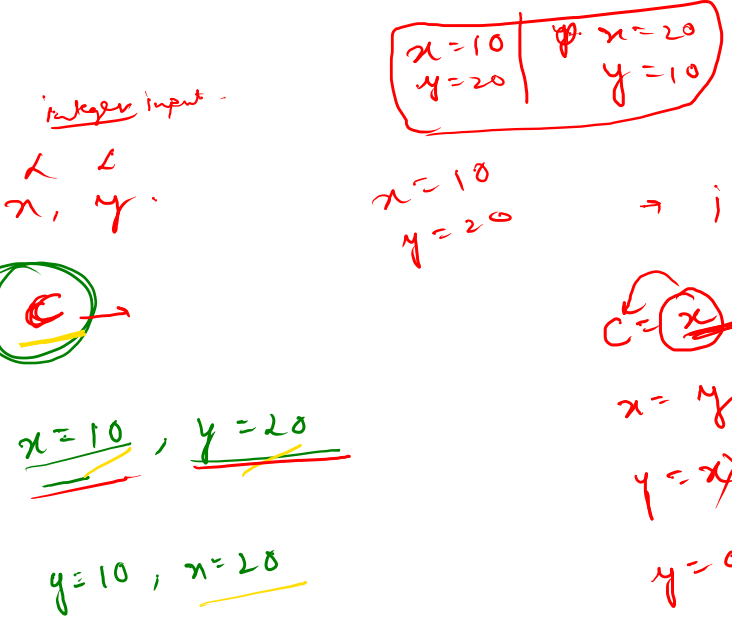
Sample Input 0

```
10
20
```

Sample Output 0

```
c = 10
x = 20
y = 10
x = 20
y = 10
```

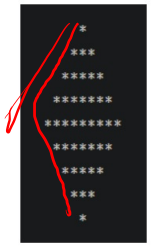




GKSTR29_Pattern_12_Diamond

Problem | Submissions | Leaderboard | Discussions

Take Integer N as input and print the following pattern.



Output Format

((2*N)-1) Line of Pattern as shown in problem statement.

Note: No space in between stars.

Sample Input 0

5

Sample Output 0

n = 5

```
public static void patternDiamond(int n){

     int rows=(2*n)-1;
    int nsp=n-1;
    int nst=1;

    for(int i=1;i<=rows;i++){
        for(int j=1;j<=nsp;j++){
            System.out.print(" ");
        }

        for(int j=1;j<=nst;j++){
            System.out.print("*");
        }

        System.out.println();
        if(i<=rows/2){
            nsp--;
            nst+=2;
        }
        else {
            nsp++;
            nst-=2;
        }
    }
}
```

rows = 2×5−1 = 9

nsp = 4 3 2 1 0 1 2 3 4 5 −1

nst = 1 3 5 7 9 7 5 3 1

i = 1 <= 9 (T)

spaces

j = 1 <= 4 (T)
j = 2 <= 4 (T)
j = 3 <= 4 (T)
j = 4 <= 4 (T)
j = 5 <= 4 (F)

stars

j = 1 <= 1 (T)
j = 2 <= 1 (F)

i = 1 <= 9/2 = 4

i = 2 <= 9 (T)

j = 1 <= 3 (T)
j = 2 <= 3 (T)
j = 3 <= 3 (T)
j = 4 <= 3 (F)

j = 1 <= 3 (T)
j = 2 <= 3 (T)
j = 3 <= 3 (T)
j = 4 <= 3 (F)

i = 3 <= 9 (T)

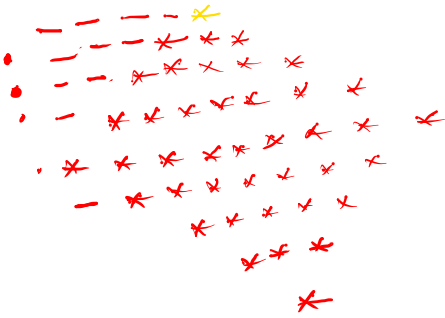
j = 1 <= 2 (T)
j = 2 <= 2 (T)
j = 3 <= 2 (F)

j = 1 <= 5 (T)
j = 5 <= 5 (T)
j = 6 <= 5 (F)

i = 4 <= 9 (T)

i = 5 <= 9 (T)
i = 6 <= 9 (T)
i = 7 <= 9 (T)
i = 8 <= 9 (T)
i = 9 <= 9 (T)

5 <= 4 (F)
6 <= 4 (F)
7 <= 4 (F)
8 <= 4 (F)
9 <= 4 (F)



(i <= 4)

2 <= 4
3 <= 4
4 <= 4 (T)
5 <= 4 (F)

Highest Common Factor. (HCF)

5, 20

6, 20

```
for (int i=5; i>=1; i--)
    if (5%i==0 && 20%i==0)
        return i;
}
```

ch = 'd'

'A' 'a'

ch = (char) (ch - 'a' + 'A')

(char) ('d' - 'a' + 'A')

(char) (100 - 97 + 'A')

(char) (3 + 'A')

65

(char) (68) ⇒ 'D'