Java → Basic syntax and simple programs → Control flow statements → Branching statements

Branching statements → The sequence

📶 Hard   🕐 13 minutes   ⍰

Write a program that prints a part of the sequence 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 … (the number is repeated as many times, to what it equals to). The input to the program is a positive integer n: the number of the elements of the sequence the program should print. Output the sequence of numbers, written in a single line, space-separated.

For example, if n = 7, then the program should output 1 2 2 3 3 3 4.

📄 Report a typo

Sample Input 1:

```
7
```

Sample Output 1:

```
1 2 2 3 3 3 4
```

↳ Write a program

Code Editor   IDE

```Java
1  import java.util.*;
2  class Main {
3      public static void main(String[] args) {
4          Scanner scanner = new Scanner(System.in);
5
6          int number = scanner.nextInt();
7          int count = 0;
8          for (int i = 1; i <= number; i++) {
9              for (int j = 1; j <= i; j++) {
10                 count++;
11                 if (count <= number) {
12                     System.out.print(i + " ");
13                 }
14             }
15         }
16         scanner.close();
17     }
18 }
19
```

✓ Correct.

That's an awesome solution! What do you think about showing it off? **Post it to Solutions** so other learners can enjoy it too.

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😍 🙂 😐 🙁 😡

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