

# Jump search in Java → Count comparisons

Hard

16 minutes

Share:

70 users solved this problem.

Latest completion was 3 days ago.

Code Challenge — Write a program

Count how many comparisons you need to do to determine the index of the element, or to determine that this element is not in the array.  
You need to use the jump search algorithm described in the theory.

The first line contains the length of an input array, the second one consists of array elements, the last one has the target value.

Sample Input 1:

10

0 1 2 3 4 5 6 7 8 9

0

Sample Output 1:

1

Sample Input 2:

10

0 1 2 3 4 5 6 7 8 9

3

Sample Output 2:

2

Sample Input 3:

10

0 1 2 3 4 5 6 7 8 9

5

Sample Output 3:

4

Sample Input 4:

9

0 1 2 3 4 5 7 8 9

6

Sample Output 4:

4

Code Editor

IDE



✓ IDE is responding

IntelliJ IDEA 2019.3

✓ Plugin is responding

3.2-2019.3-3686

Code snippets from theory

Skip problem

Time limit: 8 seconds    Memory limit: 256 MB

Code snippets from theory

- [Comments \(5\)](#)
- [Hints \(0\)](#)
- [Useful links \(0\)](#)
- [Solutions \(0\)](#)

Share something, Sergey Kubatko

Sort by:

Last posted ▾

- DM

**Dmitrij Morozov**

about 2 months ago

Report

i got it in 1 hour with crap code and without jump search hahaha =D

♡ 0

[Reply](#)
- G

**Gurhan**

3 months ago

Report

Failed test #16. Wrong answer  
What's wrong with this test case? Shouldn't it give 4?

8  
2 4 6 8 10 12 14 16  
3

♡ 0

[Reply](#)
- G

**Gurhan**

3 months ago

Report

Failed test #11. Wrong answer

♡ 0

[Reply](#)
- AN

**Adrian Nachev**

4 months ago

Report

@usr You need to use the linear search variant and with slightly improved linear search, because you don't always need to compare all numbers from it.

♡ 1

[Reply](#)
- U

**usr**

10 months ago

Fixed

According to theory we have two algorithms - with linear search and with recursive jump search. The results will be

♡ 0

[Show all](#)