

username : kharismaamy4 #7740

Case : Yudho telah menyelesaikan semester pertamanya, ia diminta untuk mengurutkan nilai pada mata pelajaran Matematika dari yang terkecil sampai yang terbesar. Terdapat 7 nilai, yaitu :  
90, 65, 75, 50, 83, 77, 93.

Bubble Sort

worst case : [90, 65, 75, 50, 83, 77, 93]

Pseudocode :

- 1) look at those 8 elements of math score
- 2) Set a mark on the first element
- 3) Move the mark to the next element
- 4) IF current marker > next element
- 5) swap the smaller element to the left
- 6) Else

7) don't swap

8) Go back to line 3

9) IF marker reached the end

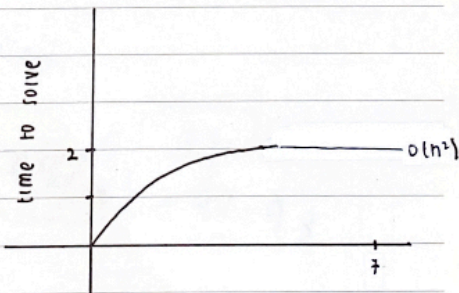
10) Go back to line 2

11) IF math score sorted

12) Break loop

13) Quit

Plot Kompleksitas



## Quick sort

worst case : [90, 65, 15, 50, 83, 77, 93]

Pseudocode :

- 1) Look at those 8 elements of math score
- 2) Set the first element to pivot element
- 3) IF the other elements < pivot element
- 4) move to the left
- 5) Else
- 6) move to the right
- 7) Go back to line 2
- 8) IF math score sorted
- 9) Break loop
- 10) Quit

