

ISTE - VIT





THE WEBINAR STARTS SOON . . .



. 01 °

>>>>

COMPETITIVE CODING

A MIND SPORT HELD ONLINE OR IN A LOCAL SERVER

AN EXERCISE FOR YOUR BRAIN



>>>>

>>>>

>>>> COMPLEXITY AND INPUT





TIME COMPLEXITY



FIND THE NUMBER OF BALLS IN THESE HOUSES











>>>>

0 (n)



HERE, BALLS ARE IN ROOMS INSIDE THE HOUSE









0



>>>>

0 (n²)





ONLINE COMPILERS CAN PERFORM 4 x 10 8 OPERATIONS PER SECOND

>>>>



TIME LIMIT OF MOST PROBLEMS WILL BE 1 SEC

>>>>



1 < N < 10⁸

THE SOLUTION SHOULD BE OF O (n)

 $1 < N < 10^4$

THE SOLUTION SHOULD BE OF 0 (n²)

>>>>

0

+



1 < N < 5 x 10²

THE SOLUTION SHOULD BE OF $\frac{0}{100}$

1 < N < 90

THE SOLUTION SHOULD BE OF 0 (n⁴)

>>>>

0

- 4



 $1 < N < 10^{18}$

THE SOLUTION SHOULD BE OF O (log(n))

1 < N < 10⁷

THE SOLUTION SHOULD BE OF O (n log(n))

0

>>>>

•



1 < N < 20

THE SOLUTION SHOULD BE of 0 (2^n)

1 < N < 11

THE SOLUTION SHOULD BE OF O (n !)

>>>>

0

+



03

WHY C++



FASTER THAN JAVA AND PYTHON

IT HAS STANDARD TEMPLATE LIBRARY





>>>>

>>>>

*



PROVIDES COMMON PROGRAMMING DATA STRUCTURES AND FUNCTIONS

CONTAINERS ALGORITHMS ITERATORS





dynamic arrays with the ability to resize itself automatically

MAP

associative containers that store elements in a mapped fashion

>>>>

SET

containers in which each element has to be unique

SORT

Algorithm used to sort functions





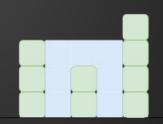






Given n non-negative integers representing an elevation map where the width of each bar is 1, compute how much water it is able to trap after raining.

>>>>



C

+



WEBSITES FOR PRACTICING





A20J LADDERS

>>>>

| ID | Name | Problems Count |
|----|--|-----------------------|
| 11 | Codeforces Rating < 1300 | 100 |
| 12 | 1300 <= Codeforces Rating <= 1399 | 100 |
| 13 | <u>1400 <= Codeforces Rating <= 1499</u> | 100 |
| 14 | 1500 <= Codeforces Rating <= 1599 | 100 |
| 15 | <u>1600 <= Codeforces Rating <= 1699</u> | 100 |
| 16 | <u>1700 <= Codeforces Rating <= 1799</u> | 100 |
| 17 | 1800 <= Codeforces Rating <= 1899 | 100 |
| 18 | 1900 <= Codeforces Rating <= 1999 | 100 |
| 19 | 2000 <= Codeforces Rating <= 2099 | 100 |
| 20 | 2100 <= Codeforces Rating <= 2199 | 100 |
| 21 | Codeforces Rating >= 2200 | 100 |
| | | |

>>>>

0

.



ABOUT ME

Linkedin : Vidyarth - gs

Instagram: vidyarth.in

WE CAN CODE TOGETHER!



THANKS!

>>>

ISTE.VIT



>>>>

ISTE_VIT_VELLORE



SEE YOU AT THE CONTESTS



INDIAN SOCIETY FOR TECHNICAL EDUCATION