Yandex (Hello Muscat Programming bootcamp 2019 by Moscow Workshops ICPC

Logout

Day 1 Div C. Dynamic Programming

9 Mar 2019, 20:45:41 start: 9 Mar 2019, 17:00:00 finish: 9 Mar 2019, 21:00:00

till the end: 00:14:15

start: 9 Mar 2019, 17:00:00 end: 9 Mar 2019, 21:00:00

duration: 04:00:00

C. Nails

| Time limit | 1 second |
|--------------|-------------------------------|
| Memory limit | 64Mb |
| Input | standard input or input.txt |
| Output | standard output or output.txt |

On very-very long thick nails n nails are placed in a row. Any two nails can be connected by a string. It is to connect some pairs of nails in such a way that each nail is connected with at least one other string, and total length of all strings which are used is minimal possible.

Input format

The first line of input contains integer $N,\,2\leqslant N\leqslant 100$ — number of nails. Second line contains N nonegative number which don't exceed 10000 — coordinates of nails.

Output format

Print the only number — minimal possible total length of all strings.

Sample

| Input | Output |
|----------------|--------|
| 6 | 5 |
| 3 4 6 12 13 14 | |



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// CMU Qatar: Sparta
// INteractive number search
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Submit Previous

Next

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