



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

### A. Circle Line

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

The circle line of the Berland subway has n stations. We know the distances between all pairs of neighboring stations:

- $d_1$  is the distance between the 1-st and the 2-nd station;
- $\emph{d}_2$  is the distance between the 2-nd and the 3-rd station;
- $d_{n-1}$  is the distance between the n 1-th and the n-th station;
- $d_n$  is the distance between the n-th and the 1-st station.

The trains go along the circle line in both directions. Find the shortest distance between stations with numbers s and t.

### Input

The first line contains integer n ( $3 \le n \le 100$ ) — the number of stations on the circle line. The second line contains n integers  $d_1, d_2, ..., d_n$  ( $1 \le d_i \le 100$ ) — the distances between pairs of neighboring stations. The third line contains two integers s and t ( $1 \le s$ ,  $t \le n$ ) — the numbers of stations, between which you need to find the shortest distance. These numbers can be the same.

The numbers in the lines are separated by single spaces.

### **Output**

Print a single number — the length of the shortest path between stations number S and t.

### **Examples**

input		
4 2349 13		
output		
5		

# input 4 582100 41 output 15

input		
3 111 31		
output		
1		

input			
3 31 41 59			
11			

### → **Attention**

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

### Codeforces Round #170 (Div. 2)

### **Finished**

### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only AQM-IQPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

## → Problem tags (implementation) No tag edit access

### → Contest materials

- Announcement
- Tutorial

×

## output

0

### Note

In the first sample the length of path  $1 \to 2 \to 3$  equals 5, the length of path  $1 \to 4 \to 3$  equals 13.

In the second sample the length of path  $4\to 1$  is 100, the length of path  $4\to 3\to 2\to 1$  is 15.

In the third sample the length of path  $3 \to 1$  is 1, the length of path  $3 \to 2 \to 1$  is 2.

In the fourth sample the numbers of stations are the same, so the shortest distance equals  $\boldsymbol{0}$ 

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