

(/users/rohitbishla333)

PRACTICE & LEARN (HTTPS://WWW.CODECHEF.COM/PROBLEMS/SCHOOL/? ITM_MEDIUM=NAVMENU&ITM_CAMPAIGN=PROBLEMS_HEAD)

COMPETE (HTTPS://WWW.CODECHEF.COM/CONTESTS/?ITM_MEDIUM=NAVMENU&ITM_CAMPAIGN=ALLCONTESTS_HEAD)

DISCUSS (HTTPS://DISCUSS.CODECHEF.COM/?ITM_MEDIUM=NAVMENU&ITM_CAMPAIGN=DISCUSS_HEAD)

OUR INITIATIVES (HTTPS://WWW.CODECHEF.COM/#)

ASSOCIATE WITH US (HTTPS://WWW.CODECHEF.COM/CORPORATES)

MORE (HTTPS://WWW.CODECHEF.COM/RATINGS/ALL)

Home (I) » Compete (Icontests/) » Assignment 9 for PEC Students (IPEC2021E?order=desc&sortBy=successful_submissions) » Sort by swaps

Sort by swaps

Problem Code: SWPSRT1

Submit (/PEC2021E/submit/SWPSRT1)



Tweet

Share Sign Up to see what your friends like.

Swap Sort

You are given an array A of size n (not exceeding 500), you are allowed a maximum of n-1 swaps where in each swap you can choose **any two** indices i,j such that $0 \leq i,j \leq n-1$ and swap the values of A_i and A_j .

Note that you do not need to minimise the number of swaps, and you are also not required to optimize the time complexity (note that the constraints allow solutions that are $\mathcal{O}(n^2)$ as well), however you **cannot** swap more than n-1 times.

There may be many solutions, you can output any of them.

Input

The first line contains a single integer n, the number of elements in the array

The second line contains n space separated integers, the elements of the array

Output

In the first line print the number of swaps you need to perform, let this number be m.

In the next m lines, print two space separated integers i,j such that $0 \le i, j \le n - 1$.

After performing the swaps in the order in which your program gives the output, the array should become sorted in increasing order. (i.e. $A_i \geq A_{i-1}$ for every i in the range [1, n-1]).

Constraints

$$-10^9 \leq A_i \leq 10^9$$

Sample Input

3 2 1

Submission Ends In

58

Mv Submissions All Submissions (/PEC2021E/status/SWPSRT(11Photizations) Land (1200) (1200

Successful Submissions

1 0 2

Explanation

After the first swap, the elements A_0 and A_2 are swapped, and the array becomes sorted, i.e. $\{1,2,3\}$

Author: <u>srikkanth_adm (/users/srikkanth_adm)</u>

Date Added: 20-02-2021

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYPY,

PYP3, TEXT, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, kotlin, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, R, CAML, rust, ASM, FORT, FS, LISP clisp, SQL, swift, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, COB, SCM chicken, SCM qobi, ST, NEM, SQLQ

Submit (/PEC2021E/submit/SWPSRT1)

Comments ▶

CodeChef is a competitive programming community

About CodeChef (/aboutus/) Contact Us (/contactus)

CodeChef uses SPOJ © by Sphere Research Labs (https://www.sphere-research.com)
In order to report copyright violations of any kind, send in an email to copyright@codechef.com (mailto:copyright@codechef.com)

CodeChef (!) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, computer programming, and programming contests. At CodeChef we work hard to revive the geek in you by hosting a programming contest at the start of the month and two smaller programming challenges at the middle and end of the month. We also aim to have training sessions and discussions related to algorithms, binary search, technicalities like array size and the likes. Apart from providing a platform for programming competitions. CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of computer programming.

Practice Section (/problems/easy) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our **programming contest** judge accepts solutions in over 55+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

Compete (Icontests) - Monthly Programming Contests, Cook-off and Lunchtime

Here is where you can show off your **computer programming skills**. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime **coding contests**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

<u>Programming Tools</u>	Practice Problems	<u>Initiatives</u>	<u>Policy</u>
Online IDE (/ide)	Easy (/problems/easy)	Go for Gold (/goforgold)	Terms of Service (/terms)
<u>Upcoming Coding Contests (/contests#future-contests)</u>	Medium (/problems/medium)	CodeChef for Schools (/school)	Privacy Policy (/privacy-policy)
Contest Hosting (/hostyourcontest)	Hard (/problems/hard)	College Chapters (/college-chapters)	Refund Policy (/refund-policy)
Problem Setting (/problemsetting)	<u>Challenge (/problems/challenge)</u>	CodeChef for Business (https://business.codechef.com)	Code of Conduct (/codeofconduct)
CodeChef Tutorials (/wiki/tutorials)	Peer (/problems/extcontest)		Bug Bounty Program (/bug-bounty-prog
CodeChef Wiki (/wiki)	School (/problems/school)		

FAQ's (/wiki/faq)

The time now is: 03:47:55 PM Your IP: 103.70.167.113