O. Max Earning and Max Losing

Time Limit: 3 seconds

Problem description

Jack Ma is an entrepreuneu in e-commerce with Alibaba company which provides a place where businesses and consumers can trade with each other. Today, he becomes a teacher in a business school, and he wants his students to try to do a data analysis work on Alibaba's daily operation database with a less knowledge of programming. It's a challenge task with many students but Nam is a smart guy and a real business man in the future, he asked his friend, who is studying in IT department of his school, to code for him a small function to find the maximum earning and maximum losing value in hundred thousand daily revenue dataitem. Working with a small dataitem is easy, but working with hundred thousand one let his friend made many bugs. You are requested to help him by implementing a small function which can find maximum earning and losing event in a list of business dataitem.

Input:

N: An integer represents the number of dataitems (0 <= N < 10000001)

Next N integer numbers VALUE indicating daily revenue dataitem where non-negative number is earned value and negative one is lost. (0 <= VALUE <= 1000000001)

Output:

Two integer numbers represent maximum earning and maximum losing dataitem.

Example 1:

Input	Output
7 -67 -86 92 6 -6 -54 -43	92 -86

Example 2:

Input	Output
5 49 97 -35 -72 -79	97 -79

Example 3:

Input	Output
88 16 -815 -104 -579 870 -700 493 613 339 -22 -994 279 -7 -383 -359 -224 89 -362 146	975 -994

-779 -100 -316 777 -645 106 443 -485 705 -84 975 -204 -842 336 196 -433 631 -729 963 -266 716 409 -193 -520 654 -292 -142 -106 767 220 -286 -872 833 928 -404 494 -334 926 703 882 -608 -176 -260 -423 578 -471 -148 -32 158 445 -703 737 -78 112 -729 696 -293 -907 -572 -113 -704 521 -929 523 228 -414 198 953 144