



Reversing a Sequence

This task has no legend, we just want to check that you are comfortable working with arrays and 64-bit integers.

You are given a sequence of 64-bit signed integers. Your task is to write a program that produces the same sequence in reversed order.

Implementation details

You should implement one function (method):

- `int64[] reverse(int64[] a)`.
 - `a`: given sequence.
 - The function should return the reversed sequence.

In C the function signature is slightly different:

- `void reverse(int64[] a, int64[] result)`.
 - The function should write the reversed sequence into array `result`.

Please use the provided template files for details of implementation in your programming language.

Examples

Example 1

`reverse([1, 2, 3])`.

The function returns `[3, 2, 1]`.

Example 2

`reverse([-3, 4, 6, -8, 9])`.

The function returns `[9, -8, 6, 4, -3]`

Subtasks

This task has only one subtask worth 100 points.

The length of the sequence is at most **100,000**.

Sample Grader

The sample grader reads the input in the following format:

- Line 1: integer `n`.

- Line 2: n integers a_i .