## 8.Condense Array to Number

Write a program, which receives an array of numbers, and **condenses** them by **summing** adjacent couples of elements until a **single number** is obtained.

### Examples

For example, if we have 3 elements [2, 10, 3], we sum the first two and the second two elements and obtain **{2+10, 10+3} = {12, 13}**, then we sum again all adjacent elements and obtain **{12+13} = {25}.**

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| [2,10,3] | 25 | 2 10 3 🡪 2+10 10+3 🡪 12 13 🡪 12 + 13 🡪 25 |
| [5,0,4,1,2] | 35 | 5 0 4 1 2 🡪 5+0 0+4 4+1 1+2 🡪 5 4 5 3 🡪 5+4 4+5 5+3 🡪 9 9 8 🡪 9+9 9+8 🡪 18 17 🡪 18+17 🡪 35 |
| [1] | 1 | 1 is already condensed to number |

### Hints

While we have more than one element in the array nums[], repeat the following:

* Allocate a new array condensed[] of size nums.Length-1.
* Sum the numbers from nums[] to condensed[]:
  + condensed[i] = nums[i] + nums[i+1]
* nums[] = condensed[]

The process is illustrated below:

A picture containing diagram

Description automatically generated A picture containing graphical user interface

Description automatically generated