Author

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https://codefights.com/img/coins_new.png1000

Sean is trying to save a large file of the known size to a USB flash drive. He has several USB flash drives in his possession, the ith USB has a capacity usbs[i]. The file can be split into smaller pieces, so it's possible to save it using multiple USBs.

What is the minimum number of USB flash drives Sean has to use? It is guaranteed that Sean has enough USBs to save his file.

**Example**

For size = 5 and usbs = [2, 1, 3], the output should be  
usbAndFile(size, usbs) = 2.

It's enough to use flash drives of sizes 2 and 3.

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] integer size**

Size of the file Sean wants to store.

*Constraints:*  
1 ≤ size ≤ 1000.

* **[input] array.integer usbs**

A non-empty array of integers, capacities of the USB drives Sean has.

*Constraints:*  
1 ≤ usbs.length ≤ 1000,  
1 ≤ usbs[i] ≤ 1000.

* **[output] integer**

The minimum number of USB flash drives to write Sean's file, if he can split the file between drives.

<https://codefights.com/challenge/hMCmr72eyrJBNEdp9/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int usbAndFile(int size, int[] usbs)

{

Array.Sort(usbs);

int sum = 0;

int cont = 0;

for (int i = usbs.Length - 1; i >= 0; i--)

{

sum += usbs[i];

cont++;

if (sum >= size)

{

return cont;

}

}

return -1;

}

static void Main(string[] args)

{

}

}

}