There are a lot of species on planet Tazenda, and we know there is a dominant one. The dominant species constitute more than half of the total living creatures on the planet.

You know that each species has a unique integer number, their ID. Each creature has the ID of the species it belongs to. So, tell me, what ID the dominant species have?

**Example:**

Dominant\_species([1,2,1,3,3,1,0,1,1,9,1]) = 1

* **[input] array.integer A**
  + The "species number" of each creature on the planet.
* **[output] integer**
  + The dominant species number.

<https://codefights.com/challenge/2KoYf9vxLYScDe4rW>

int Dominant\_species(std::vector<int> A) {

std::map<int,int> m;

for(int i = 0; i < A.size(); i++){

m[A[i]]++;

}

for(std::map<int,int>::iterator it = m.begin(); it != m.end(); it++){

if(it->second > A.size()/2){

return it->first;

}

}

return -1;

}