You're given the 'x' coordinates of npoints on a line.  
Return the sum of distances between each pair of points.

**Example**

For n = 3 and xcor = [-3, 4, -3] the answer is abs(-3 - 4) + abs(-3 + 3) + abs(4 + 3) = 7 + 0 + 7 = 14.

* **[input] integer n**
  + The number of points, 2 < n < 2000.
* **[input] array.integer xcor**
  + An array of coordinates, -5000 < xcor[i] < 5000.
* **[output] integer**
  + Return the answer modulo10000007.

<https://codefights.com/challenge/orWtugkZL8oo5bDre>

--ACEPTADO--

int distancesum(int n, std::vector< int > xcor) {

   long long int sum = 0;

    for(int i = 0; i < n-1; i++)

    {

        for(int j = i+1; j < n; j++) {

            sum += std::abs(xcor[i] - xcor[j]);

        }

    }

    return sum%10000007;

}