Write an algorithm that creates a sorted array of positive numbers' squares, such that its maximum element isn't greater than n.

**Example:**

exponentArray(10) = [1, 4, 9]

* **[input] integer n**
  + 0 ≤ n ≤ 107
* **[output] array.integer**
  + A sorted array of squares.

<https://codefights.com/challenge/4NdF59tmcSYLDHrYX>

static int[] exponentArray(int n)

{

List<int> squares = new List<int>();

for (int i = 1; i \* i <= n; i++)

{

squares.Add(i \* i);

}

return squares.ToArray();

}