SMALLEST DIVISOR WITH A GIVEN THRESHOLD

It In this program, we are supposed to find and neturn the smallest number such that on dividing all the elements by it and adding the ceiling, the value we get is less than threshold.

Brute force solution is to obviously start searching from I for each run -ben until we finally find a value lesser than the threshold Optimal solution is to achieve this using Binary Search.

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return false

```
smallest Divisor (am, N,t) (
  max = 0
  for (i = 1 -> N-1)
     if (arr[i] > arr [max]) d
        max = i
  max = arr[max]
  while (low < = max) of
     mid = (low + max) / 2
     if (divisor Sum (aur, mid, t, N))
       ans = mid
        max = mid-1
       else f
        low = mid +1
2 return ans
```