integers find the maximum and minimum Product that can be obtained by multiplying two integers from that area.

- 1) array: s {4, -2, 3, 10, -5, 2, 8, -3, 6, 7, -4, 1, 9, -1} we need to consider the langust and smallest products that can be formed by selecting incombers from array.
- 2) sort fre array

2

5

3) I denlify Possible condidates for maximum Product

Maximum Product.

Candidates for minimum Product calculating

* the two largest Positive numbers are 102 14=1 10 x11=110

The maximum Product 75 110.

The largest lositive & negative number is 11x-4=-44

The Smallest negative numbers are -9x-8=72

-99 is Smaller than 70 17

maximum = 110 Minimum = -99.

Demonstrate the binary search method to Scarch the key = 33 from

Griven key = 33 and array = {2,5,8,12, 16,23, 38,56,72,913

10w:0 & high = 9

calculate mid = 10 w thigh = 6 + 4 = 5

compare arr [orid] with per:

ari En] = 16

Since 16 C23 uPdate 1000 = midtl=5.

calculate mi d = (low + high) = 5+9 = 7

compare arr [orid] with key

arr[7] = 56

since 56723 ceptate high = mid-1=6 arr[oid] = arr(s)=23