O' Sort acc to dixtome. If some dist, smaller n should come filst
pail < int, int > new-origin
pair < int, int > new-origin bool comp ( pair Lint, int > a, pair Lint, int > b)
long d, = (long) a. first * a. first + (long) a. second * a. second
long $d_2 = (long) b \cdot first * b \cdot first + (long) b \cdot second * b \cdot second$
if $ld, < dr$ )  return  else if $ld, > dr$ )
else if (d, > d2) return
return else $\mathcal{L}$ ; is ( a. first $\mathcal{L}$ 6. first ) $A(0)^2 + A(1)^2$ { else
Point $\Rightarrow$ $(x, y)$ Oligin $\Rightarrow$ $(x, y)$
$\Rightarrow (2e-\beta n)^2 + (y-\beta y)^2$

22 Longest palindome using letters banana  $\Rightarrow$  (5) anana => abics a (6) anbna Eg2 abcabc ⇒ Obs: In a palindome => all letters appear even no of times odd -=) / letter => Palindlone > Max 1 letter odd freq faeq (s(i) - 97)++ Hence cleate freq alray. int freq [26] Now at max one odd guy can be taken a b c d e ffree 10 20 15 11 3 24 and \$ +10 +20 +15 +10 +2 +24 Code ans =0, odd-taken = false for(i=0)i<26;i++) & il (freq(i)-/.2 ==0) ans+=freq(i) else if (odd-taken == false) ans + = freq (i), odd-taken = true elle ans t= fleg (i) -1

return ans.

03 Find	left mos	t e li solkd	ight m al	ost lay	idn	of	<u>a</u>
In class	, we did	left me	91 <sup>t</sup>	7	E	9	10
-5 -5 -							
	5 =						
	o =>						
K > '							
Use	Binary	Searc	h				
Cose I	as En	mid] =	z k				
	RE	mid 1 h	LBB		ar	4 =	mid
							left
Cose I	ar lmi	u3< £	2				U
		mid					
					olo	J	ight
Cose Il	ar lmid	3> k					U
		nid					
				go	9to	lej	l t
						1	, -

For greatest idn

Cose I

as[mid] == k

RR Amid 1 R RB

goto right

aabb ccde abcde

2 2 2 1 1

+2 +2 +1 +0

- 7

aabb ccd a b c d 2 2 2 1

l==1 leton

ide

6 1 100 200

10 20

sout (OII)

sort (2,3)

melge

sout (0,0)

Sort (1/1)

mely (o, 1)

80t (0,1) l,mid mid+1 l 0,0