1 crim an array of [4, 2, 5, 13, 10, 5, 2, 8, 3, 6, 7, 12, 1, 9, -10 - 1 -811) research treat the warmin and whoman bright that can be optained by withblild too juscies from the resto CD2'

array 18 (14, -2, 8,3, 10, -3,2,8, -3, \$,7,-4,1, 9,-1,0, 6,-6,000) we need to consider the largest and smallest product that can be tolage by selecting two usupers thou the other Vost the array.

Softed array [2,0,6,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0]

- o) Deposity possible considered for moximum bodad
- 3) Edentify possible condidate for munimum product

coprojected wax man broping,

+ the two loadest bookfine uniper out to any of 01/21/2010

the two gradest negative numbers are to and as -94-08-72

The maximon sodoet is 110

Colored us will an seport

the losgest bostlive and negative number is I and in 614-6-68

The smally regative numbers are -9x-9 =72

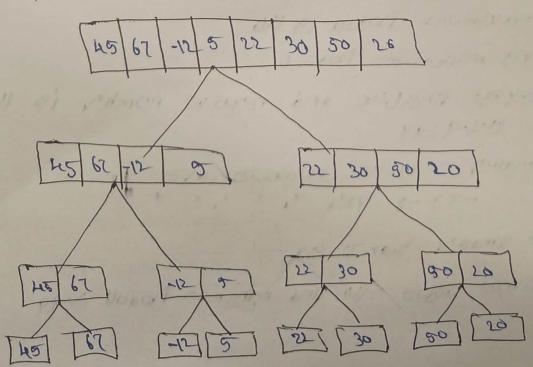
-99 13 smarch tran 72 50

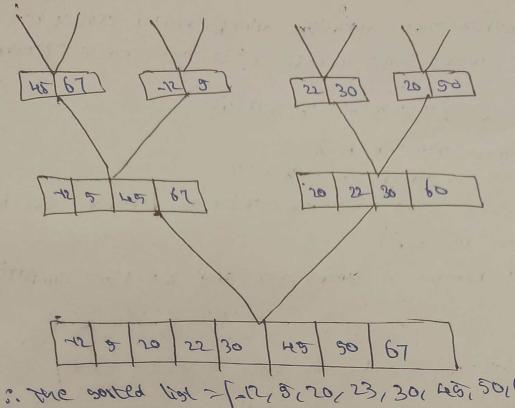
maximon brogues = 110, and maximom broduit 2-09

exo[mid] = arr [2]:23 since \$6=23 oldate pigh = mid = 26 mid = [5+6] = 5 mid = [5+6] = 5 arr [mid] = arr [5]:23

1. The verses is found at indexes.

ally melge soit and other list of a signerty, of [HAID] I'S of the number of the contains make by mergesoit.





:. The sorted light = [-12, 3, 20, 23, 30, 45, 50,67]

Recurrence Relation for compositions;

10) = 5+ 12) +0(0)

if n' , two - Base Case.

-) AT each level or reconsion we make at most A1 combosidad to werd from pand of BIX WI do it peronte

1(n) = 2 + 1 + (n-2)

coloind retailed to logica no det 10) = N/03 5 (D) - NG1

(1/20/nlosn)

: The recovering reporter is 1/1) = 51 (2)+0(4)

or more overisely

T(0) = 1)092(0) = 11+1

Find the no. of times to lestoring solving smalling tox adection ast obs astiment the time conflictity for the arda of note for sett (12,17,5,-2,18,6,13,14)

the selection gost abstitute about make exorth in 1 anals were mount case where is the worst chambre In the list given == {12,7,31-2,6,6,13,43, No of gowers, 178 12/-8/1-4= clocus to. ON time complexity, the time conflexity of selection sort in Bit a vocasion in olus so, the number of swales is I and the fine complexity is 2) find the index of the forder hope 10 mind pivered search from the following list of element (2, Leibig, 10, 2, He, 16,18) 20] 502 given list = {2,14,618,16,2,14,16,18,20} and vave 10 Low = o and high >9 wid = bostyish = ot & ot

Test(H) = mid = 10, mid = 2 notes

Test(H) = mid = 10, mid = 2 notes

Test(H) = mid = 10, mid = 2 notes