Highest Profit (A, i, j)

if (i=j) rutum (A[i], A[j],0)

else

{ K = (i+1)

(low-L, high-L, profit-L) < Highest Profit (A, i, k)

(low-R, high-R, profit-R) < Highwathrofit (A, k+1, j)

low & min (low-L, low-R)

high < max (high_L, high_R) high-R-low-L

profit < man (profit - L, profit - R, tip alon)

suturn (low, high, profit);

The time complimity of algorithm is O(n) where is the mo. of days.)

Final Answers

- c) min(low_L, low_R)
- d.) man (high_L, high_R)
- e) man(profit-L, profit-R, high-R-low-L)
- f) o(n).

Proof: $\sqrt{T(n)} = 2T(\frac{n}{2}) + C$