

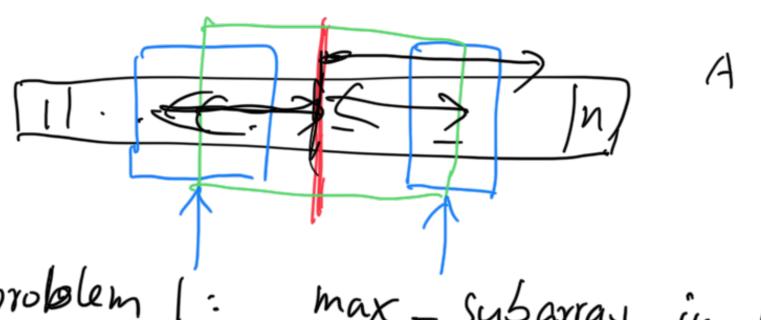
Ali]: stock price increase during day i,

The Ali]: price increase from day l till r

PEOJ is day O Stock price PZi] = Plo] + I ACK]: Stock price at day i Y * < QX lt = argmin PEi) v*= argmax PEi]

Jeien

15 isn (n)



sub-problem 1: max - subarray in left half of A

- - 2: - - right - -

sub-problem 3: . - - - crossing midpoint of A

 $T(n) = 2T(\frac{n}{2}) + f(n)$

$$\int \left| \leq l \leq \frac{n}{2} \right| \leq \gamma \leq \eta$$

Cl,17?

$$\frac{n^2}{T(n)} = 2.7 \quad \frac{n^3}{(n)}$$

$$a=b=2 \qquad n \log a = n$$

$$max \sum_{i=1}^{r} Az_{i} = n$$

$$max \sum_{i=1}^{r} Az_{i} = n$$

$$max \sum_{i=1}^{r} Az_{i} + n$$

$$max \sum_{i=1}^{r} Az_{i}$$

 $T(n) = 2T(\frac{n}{2}) + 6(n)$

(n logn)

