

EXAMPLE

$n=9$ (positive integers only)

[2, 2, 7, 5, 2, 2, 0, 6, 4]

DIVIDE

$n/2$

$n/2$

"we divide the array into two halves"

[2, 2, 7, 5, 2]

[2, 0, 6, 4]

[2, 2, 7, 5]

[2, 7, 5]

[2, 7, 5, 2]

[2, 0, 6]

[6]

[6, 4]

(1)

(16)

[2, 2, 7, 5]

vs.

(26)

[2, 2, 7, 5, 2, 2, 0, 6]

(2)

(6)

[6, 4]

vs.

CHOOSE

[2, 7, 5, 2, 2, 0, 6, 4]

CHOOSE

the 3 values we select

(3)

(14)

[2, 7, 5]

vs.

(6)

[6]

vs.

(24)

[2, 7, 5, 2, 2, 0, 6]

CHOOSE

But how do we return the best recursively?

→ are we just calculating the subsequences recursively?