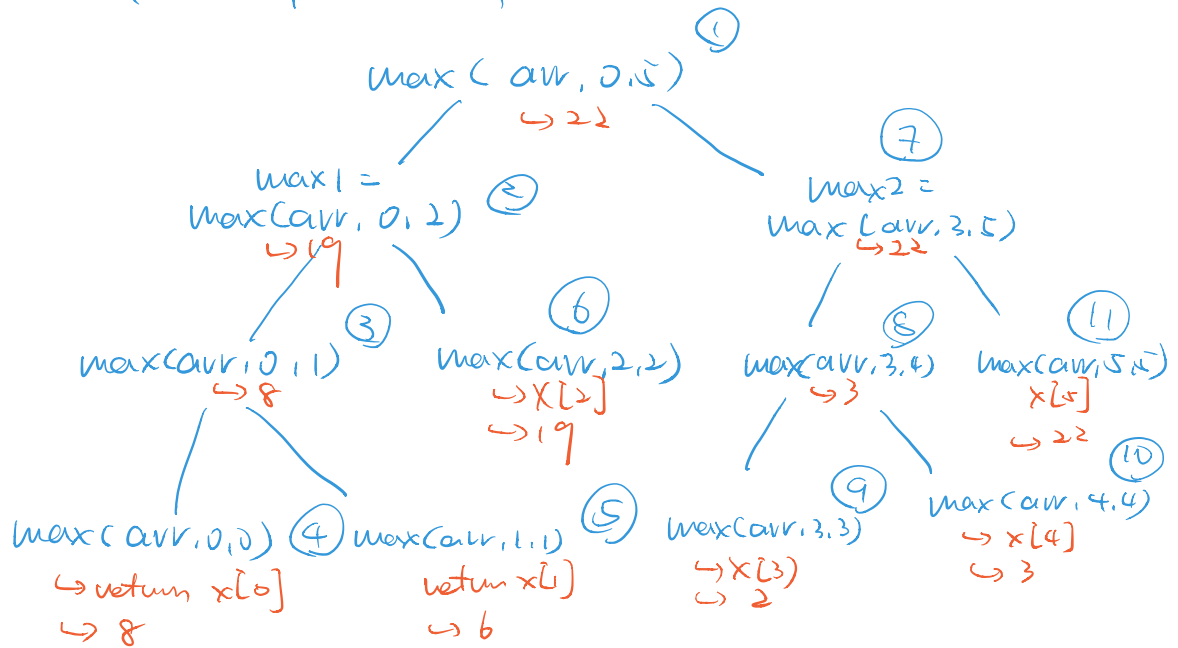


2. {8, 6, 19, 2, 3, 22}



3. Sum(data, 0, 4)

①  $mid = (0+4)/2 = 2$   
 $\hookrightarrow S(data, 0, 2) \overset{9}{=} + S(data, 3, 4) \overset{11}{=} = 20$

②  $S(data, 0, 2) \overset{4+5=9}{}$   
 $mid = (0+2)/2 = 1$   
 $\hookrightarrow S(data, 0, 1) \overset{5}{=} + S(data, 2, 2) \overset{4}{=} = 9$

③  $S(data, 0, 1) \overset{=5}{}$   
 $mid = (0+1)/2 = 0$   
 $\hookrightarrow S(data, 0, 0) \overset{2}{=} + S(data, 1, 1) \overset{3}{=} = 5$

④  $S(data, 0, 0) \checkmark$   
 $low == high$   
 $\hookrightarrow data[0]$   
 $\hookrightarrow 2$

$S(data, 3, 4) \overset{5+6=11}{}$

$mid = (3+4)/2 = 3$

$\hookrightarrow S(data, 3, 3) \overset{5=3}{=} + S(data, 4, 4) \overset{6}{}$

$S(data, 3, 3)$   
 $low == high$   
 $\hookrightarrow data[3]$   
 $\hookrightarrow 5$

$S(data, 4, 4)$   
 $low == high$   
 $\hookrightarrow data[4]$   
 $\hookrightarrow 6$

↓  
 S(data, 2, 2)  
 low = high  
 ↪ data[2]  
 ↪ 4

↓  
 S(data, 1, 1)  
 low == high  
 ↪ data[1]  
 ↪ 3

Stack :

S(data, 4, 4)	6
S(data, 3, 3)	5
S(data, 3, 4)	11 = 5 + 6
S(data, 2, 2)	4
S(data, 1, 1)	3
S(data, 0, 0)	2
S(data, 0, 1)	5 = 3 + 2
↑ S(data, 0, 2)	9 = 4 + 5
S(data, 0, 4)	20 = 9 + 11
push	return