```
Lecture notes, Sept 29th, 2020
                                  tree [1,1] = 3
                                  tree [2,1] = 7
                                                                                                                             [1,2] =4
                                                          [3, 1] = 2 [ [ ---] ----
                            tree [:,j] => i. level of the tree
                                                                                                                          j; index of element from left
go down,

what's the max...?

res[ij] = tree [ij] + max (res[ijj+i], res[inj])
                                                                                               end
                        Math > V(n, i) = f(n, i)
                                   A := U \qquad \qquad \begin{array}{c} V = V \\ V = V \end{array}
A := V \qquad \qquad \begin{array}{c} V = V \\ V = V \end{array}
A := V \qquad \qquad \begin{array}{c} V = V \\ V = V \end{array}
A := V \qquad \qquad \begin{array}{c} V = V \\ V = V \end{array}
                                                                                                                                                            D(1, 2) = ald wox | N(1, 1) ' N(1, 1) | 

1 / 2 + 1 | 1 | N(1, 1) > N(1, 1) | 

1 / 2 + 1 | 1 | N(1, 1) | 
                                                           Value function
                                                                                                                                            Policy function lite otherwise
                                                                             => states
                                                                       s = (i,j)
                                                      V(s) = \max_{s' \in S} \left\{ \frac{f(s) + V(s')}{s'n + bs \text{ orange}} \right\}
where s' \in S = \left(\frac{i+1}{i+1}, \frac{i}{j+1}\right)
V(s) = \max_{s' \in S} \left\{ \frac{f(s) + V(s')}{s'} \right\}
```