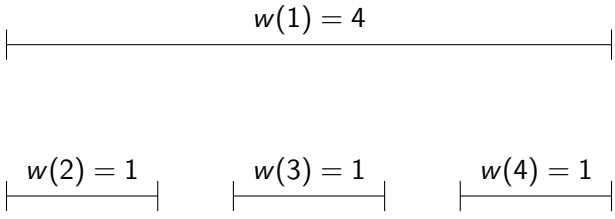
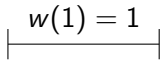
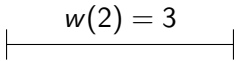
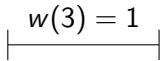
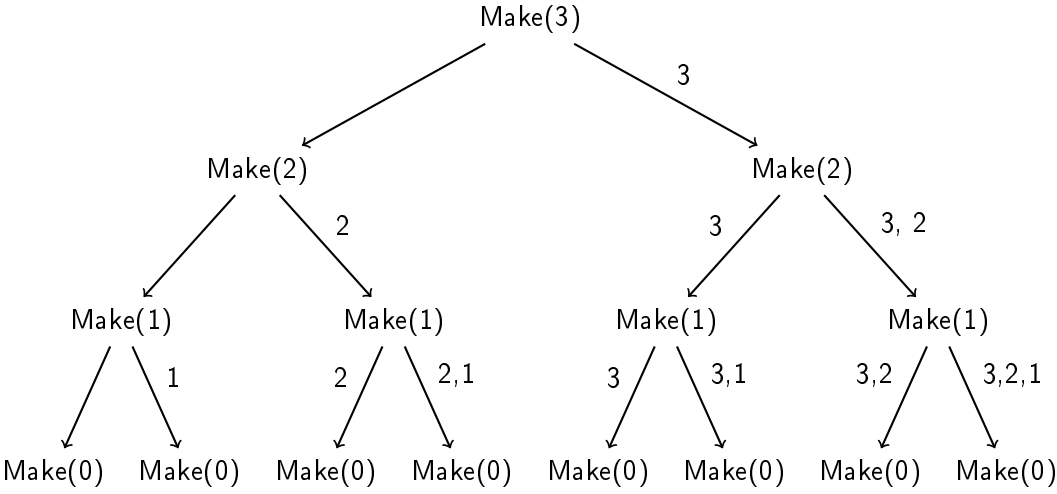
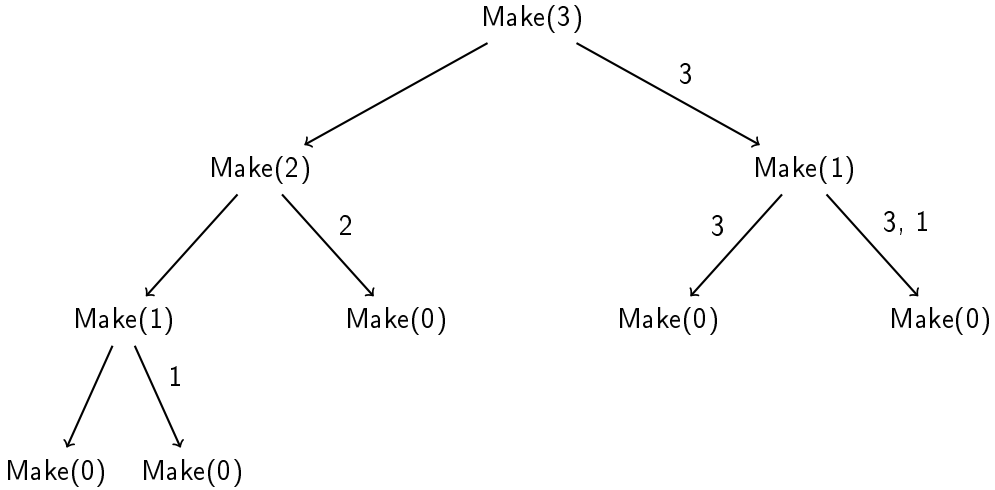

$w(1) = 4$
$w(2) = 1$
$w(3) = 1$
$w(4) = 1$

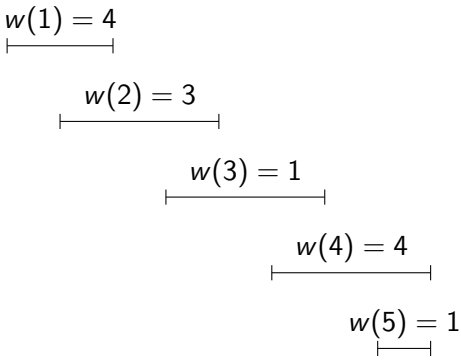

$w(1) = 1$

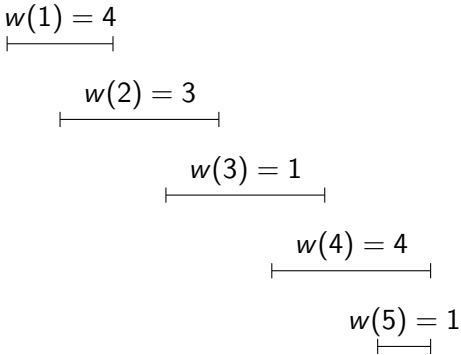

$w(2) = 3$

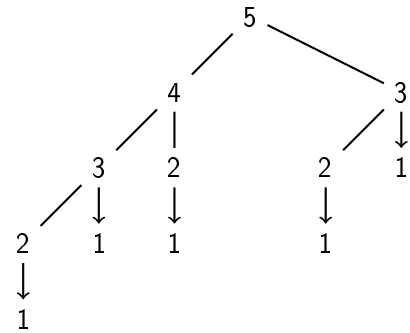

$w(3) = 1$

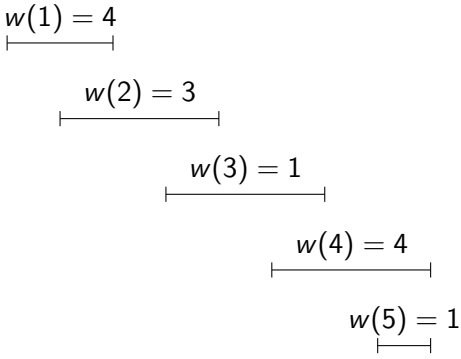

Make(3)
3
Make(2)
Make(2)
2
3
3, 2
Make(1)
Make(1)
Make(1)
Make(1)
1
2
2,1
3
3,1
3,2
3,2,1
Make(0)
Make(0)
Make(0)
Make(0)
Make(0)
Make(0)
Make(0)
Make(0)

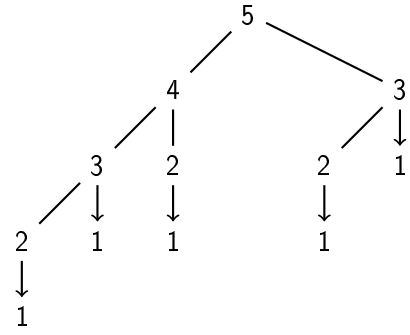

Make(3)
3
Make(2)
Make(1)
2
3
3, 1
Make(1)
Make(0)
Make(0)
Make(0)
1
Make(0)
Make(0)


$w(1) = 4$
$w(2) = 3$
$w(3) = 1$
$w(4) = 4$
$w(5) = 1$

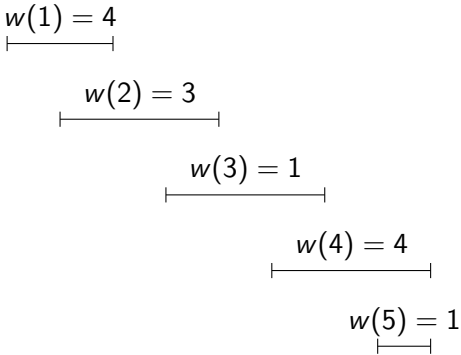

$w(1) = 4$
$w(2) = 3$
$w(3) = 1$
$w(4) = 4$
$w(5) = 1$


5
4
3
3
2
2
1
2
1
1
1
1
1



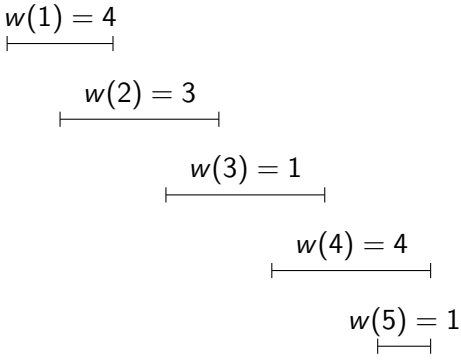




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$



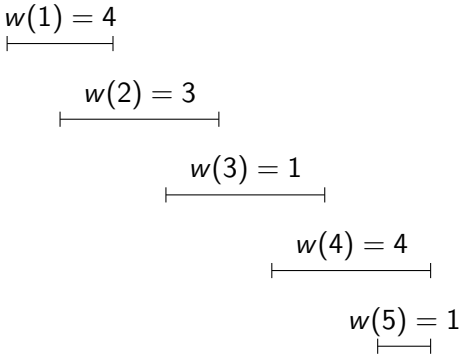

$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | | | | | |




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

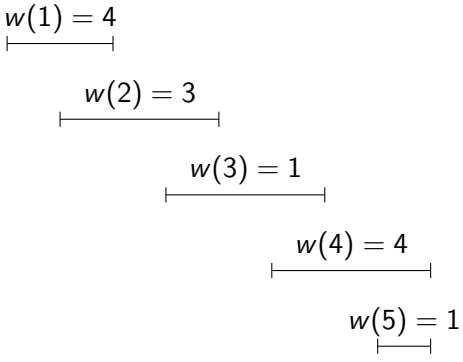
| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | | | | |




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

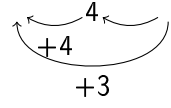
| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | | | | |

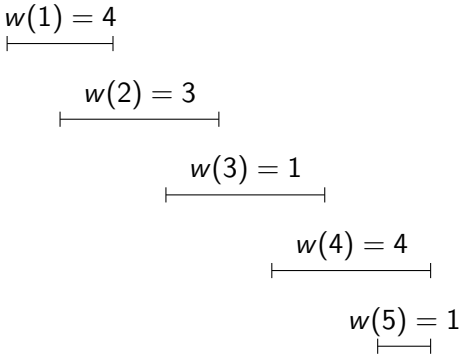
+4




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | | | | |

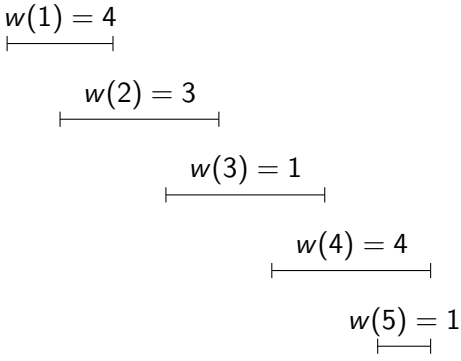





$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

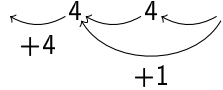
| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | 4 | | | |

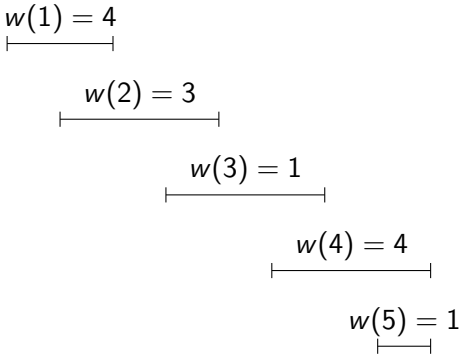
+4




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | 4 | | | |



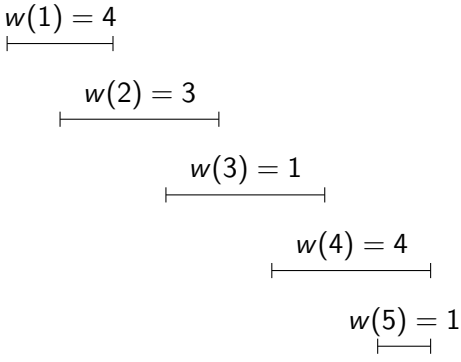



$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | 4 | 5 | | |

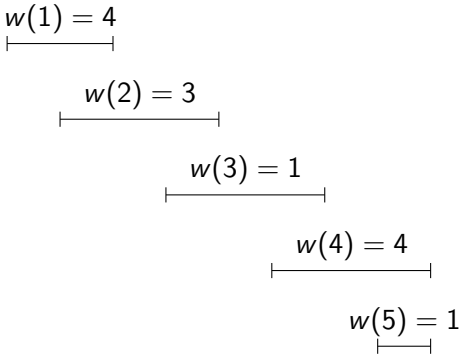
+4

+1




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

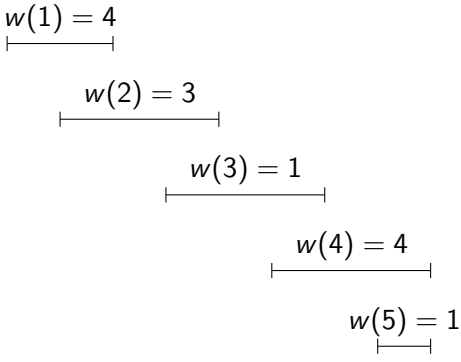
| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | 4 | 5 | | |




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

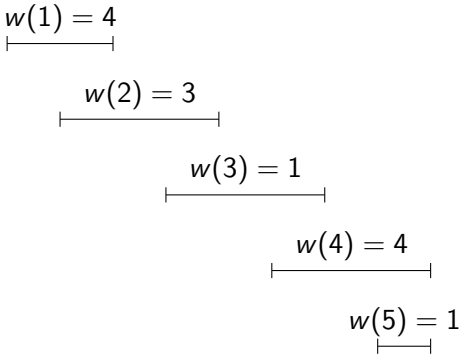
| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | 4 | 5 | 8 | |

+4 +1 +4




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | 4 | 5 | 8 | |




$$OPT(k) = \max \begin{cases} OPT(k-1) \\ w(k) + OPT(p(k)) \end{cases}$$

| k | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| w(k) | 4 | 3 | 1 | 5 | 1 |
| OPT(k) | 4 | 4 | 5 | 8 | 8 |

+4 +1 +4