

$$B[i][j] = \begin{cases} 0 & \text{if } j = 0 \text{ and } W[0] > i \\ V[0] & \text{if } j = 0 \text{ and } W[0] \leq i \\ B[i][j - 1] & \text{if } W[j] > i \\ \min\{V[j] + B[i - W[j]][j - 1], \\ \quad B[i][j - 1]\} & \text{otherwise} \end{cases}$$

3	20/S	20/S	20/S	90/S	110/S	120/T	125/S
2	20/S	20/S	20/S	90/T	110/T	110/T	125/T
1	20/S	20/S	35/T	35/T	35/T	35/T	35/T
0	20/T	20/T	20/T	20/T	20/T	20/T	20/T
	1	2	3	4	5	6	7

$$L[i][j] = \begin{cases} 0 & \text{if } (i = 0 \text{ or } j = 0) \text{ and } a[i] \neq b[j] \\ 1 & \text{if } (i = 0 \text{ or } j = 0) \text{ and } a[i] = b[j] \\ 1 + L[i-1][j-1] & \text{if } i \neq 0 \text{ and } j \neq 0 \text{ and } a[i] = b[j] \\ \max\{L[i][j-1], \\ L[i-1][j]\} & \text{otherwise} \end{cases}$$

T	0	0	1	2	2	3	4	4	4	4	5
E	0	0	1	2	2	3	4	4	4	4	4
H	0	0	1	2	2	3	3	3	3	3	3
C	0	0	1	2	2	2	2	2	2	2	2
T	0	0	1	1	1	1	1	1	1	1	2
A	0	0	1	1	1	1	1	1	1	1	1
R	0	0	0	0	0	0	0	0	0	0	0
	B	L	A	C	K	H	E	I	G	H	T

$$M[i][j] = \begin{cases} 0 & \text{if } i = j \\ \min_{i \leq k < j} \{ M[i][k] + \\ \quad D[i] \times D[k] \times D[j] + \\ \quad M[k][j + 1] \} & \text{otherwise} \end{cases}$$