

Review 8-1

1. Fill in the blanks in the following assembly-line scheduling example.

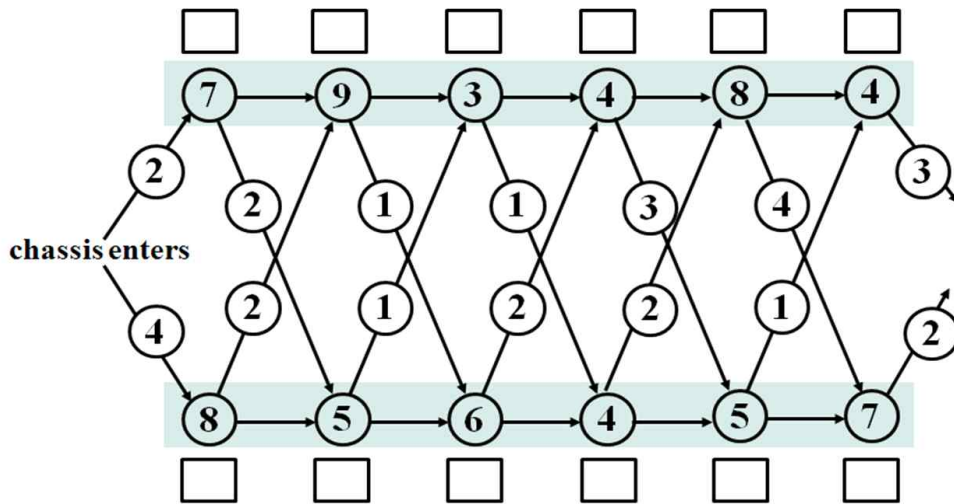


Table s

	1	2	3	4	5	6
1						
2						

Table ℓ

	2	3	4	5	6
1					
2					

$$s^* = \boxed{}$$

$$\ell^* = \boxed{}$$

2. Fill in the blanks in the following pseudocode for assembly-line scheduling.

FASTEST-WAY(a, t, e, x, n)

$s[1][1] = e[1] + a[1][1]$

$s[2][1] = e[2] + a[2][1]$

for $j = 2$ **to** n

do if $s[1][j-1] + a[1][j] \leq s[2][j-1] + t[2][j-1] + a[1][j]$

then $s[1][j] = s[1][j-1] + a[1][j]$

$\ell[1][j] = 1$

else $s[1][j] = s[2][j-1] + t[2][j-1] + a[1][j]$

$\ell[1][j] = 2$

if

then

else

if $s[1][n] + x[1] \leq s[2][n] + x[2]$

then $s^* = \boxed{}$

$\ell^* = \boxed{}$

else $s^* = \boxed{}$

$\ell^* = \boxed{}$