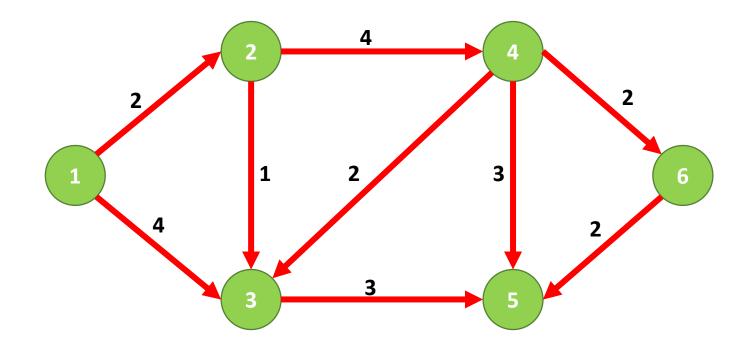


Enunciado

Dada la siguiente red de actividades, determine:

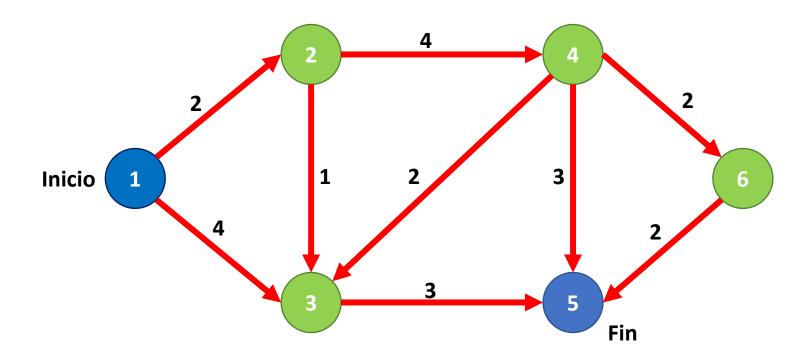
- Duración mínima del proyecto.
- Camino crítico.



Enunciado

Dada la siguiente red de actividades, determine:

- Duración mínima del proyecto.
- Camino crítico.

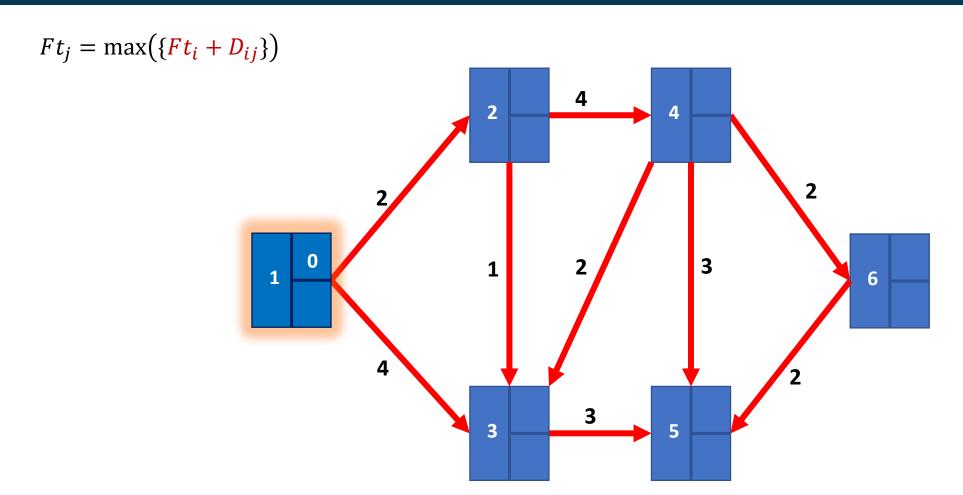


Método del Camino Crítico (CPM)

Procedimiento general:

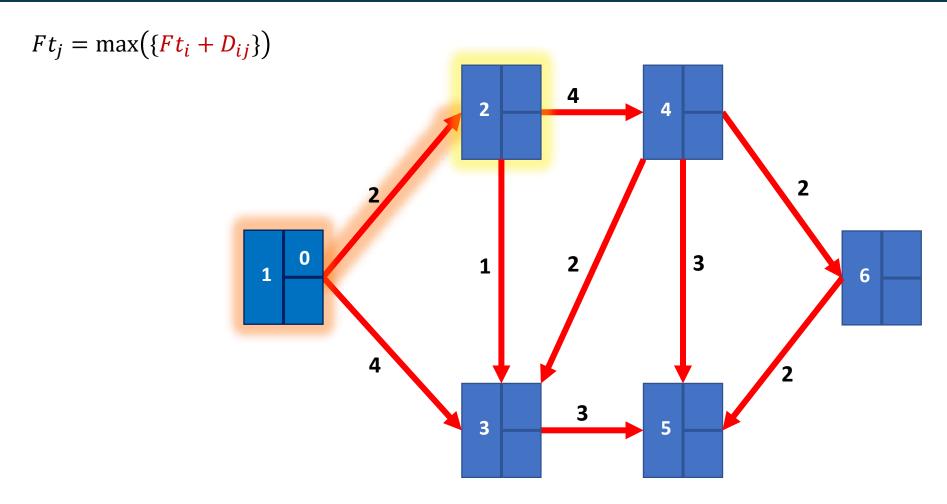
- 1- Crear grafo de proyectos.
- 2- Calcular fechas tempranas.
- 3- Calcular fechas tardías.
- 4- Calcular métricas, especialmente margen total.
- 5- Determinar tareas críticas.





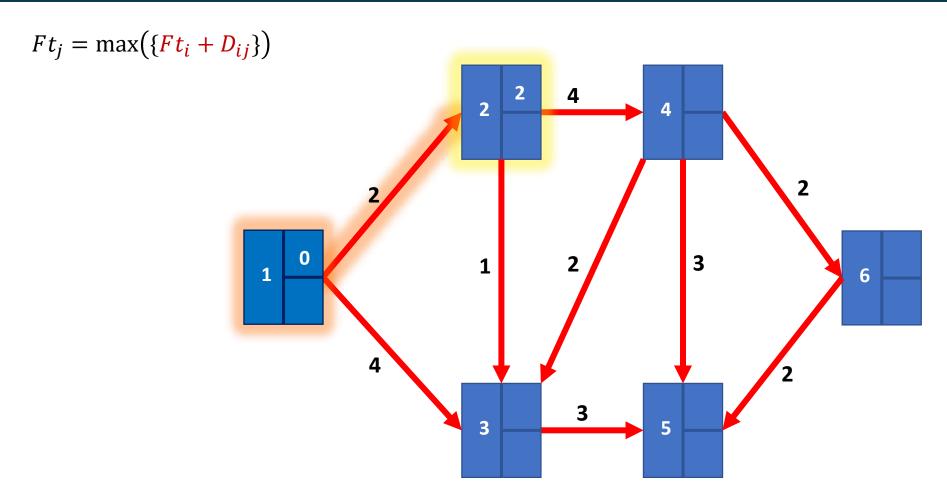






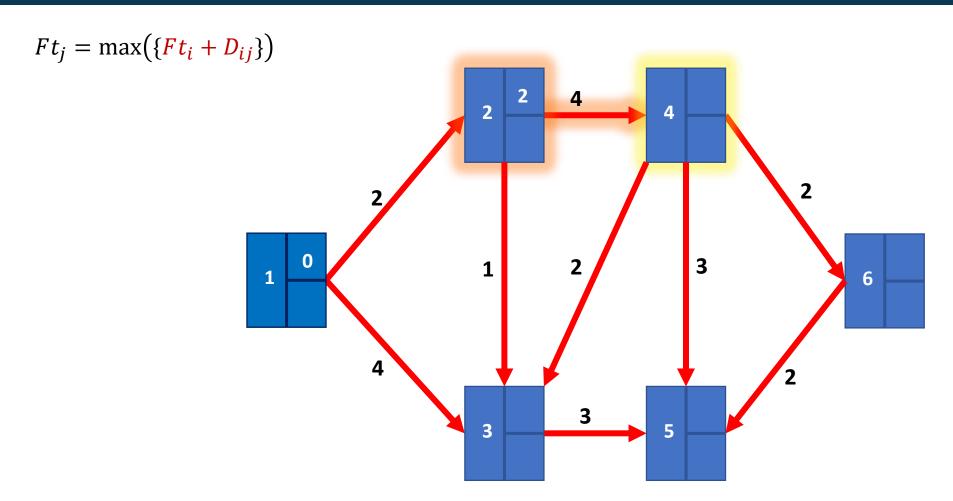






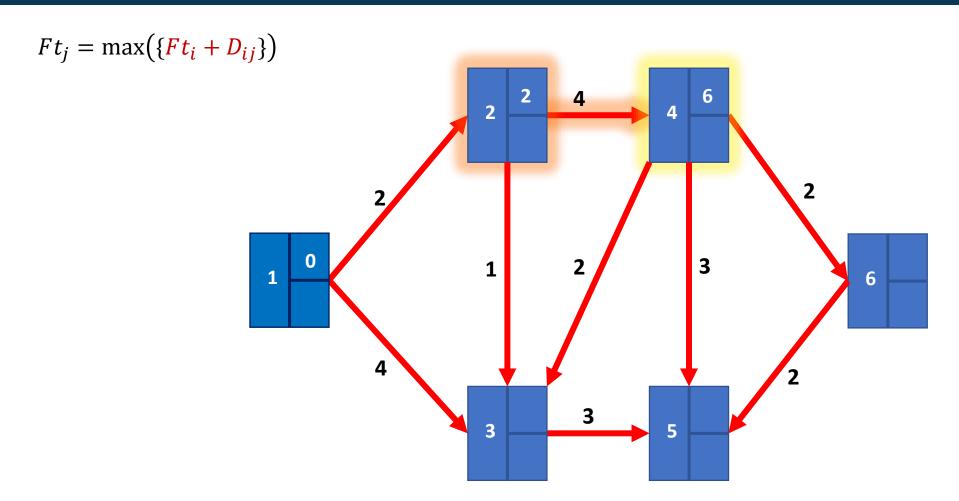






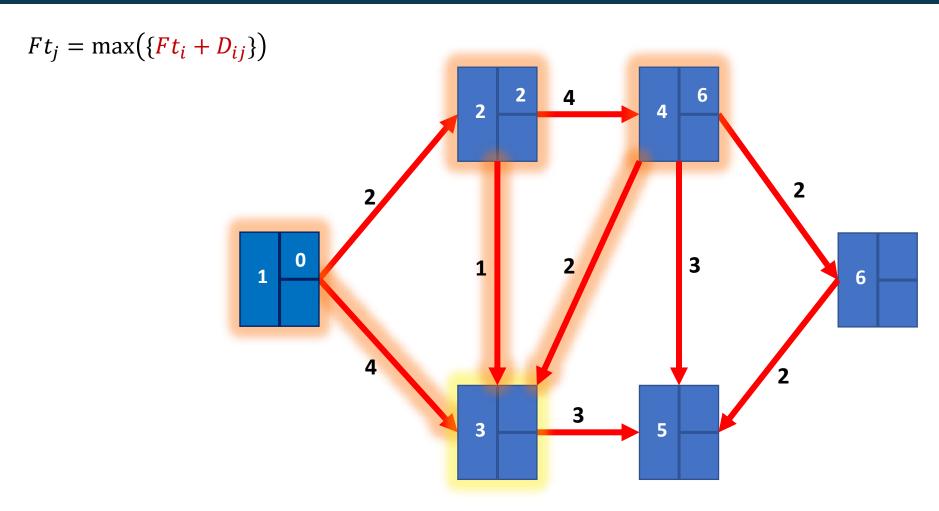






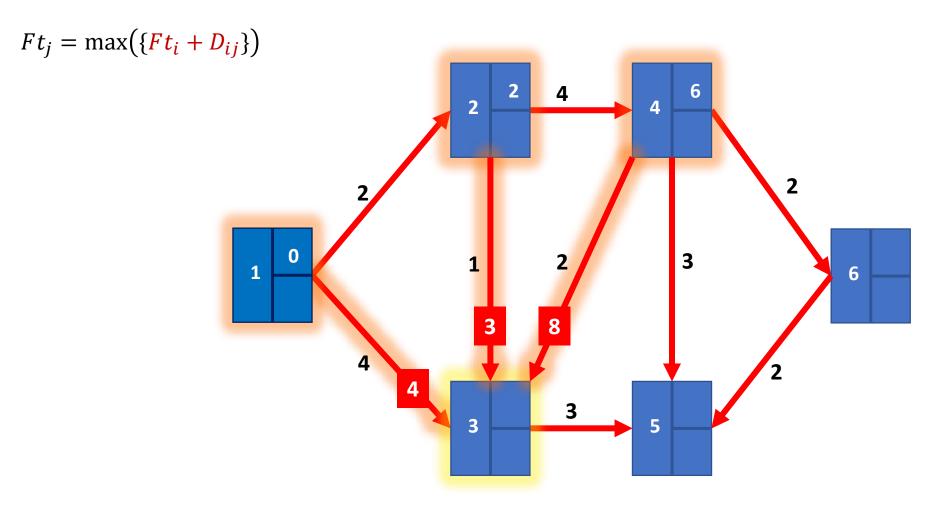






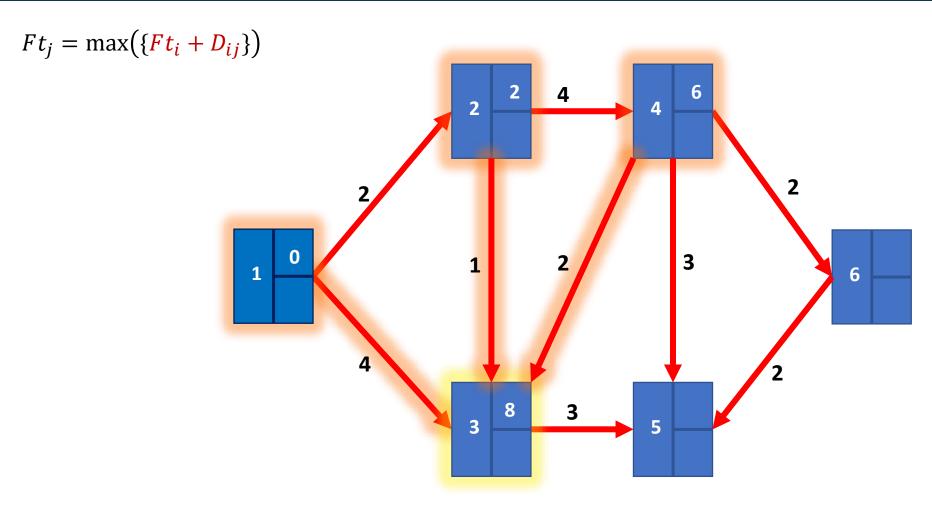






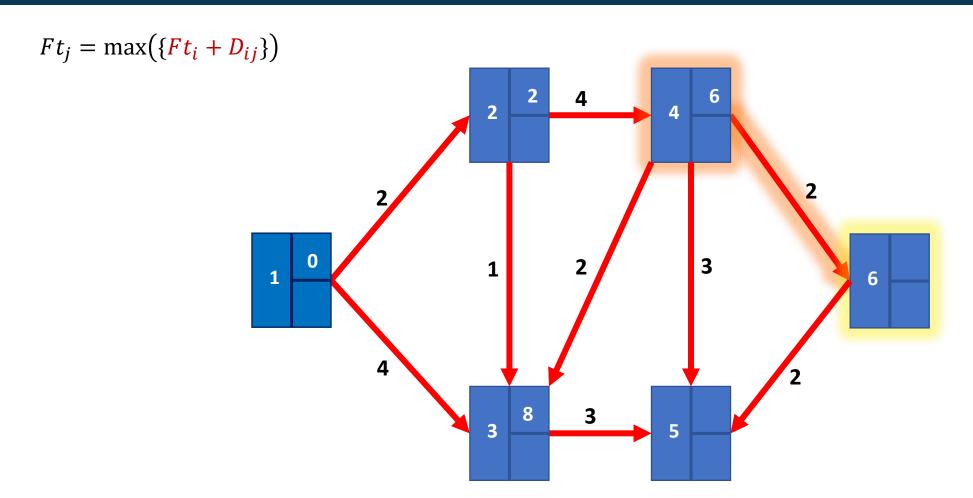






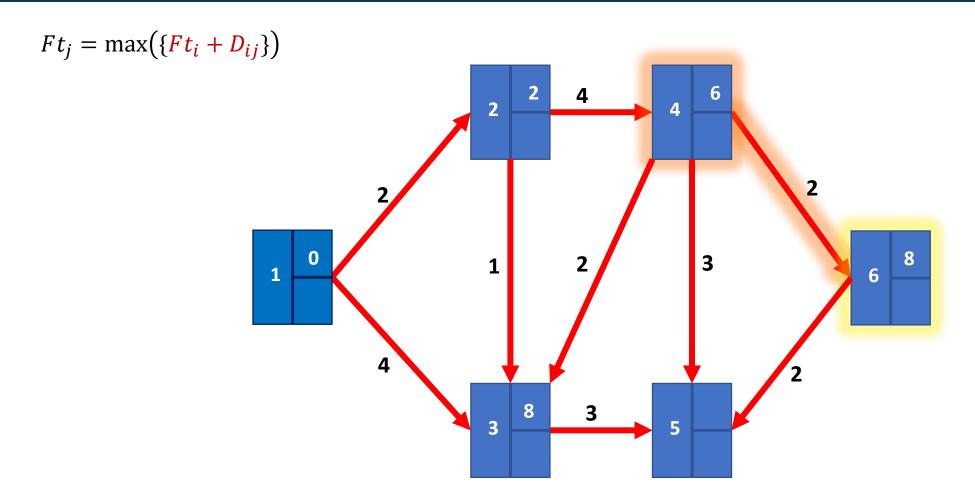






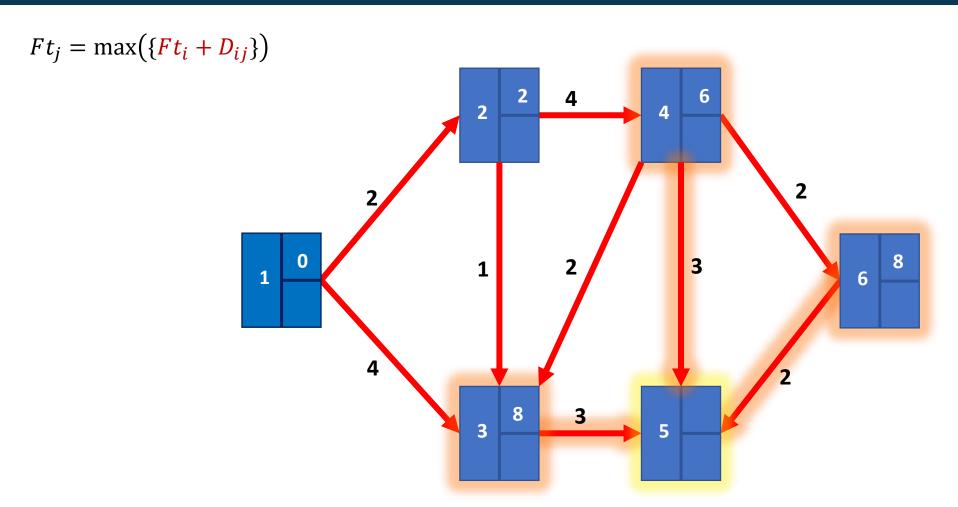






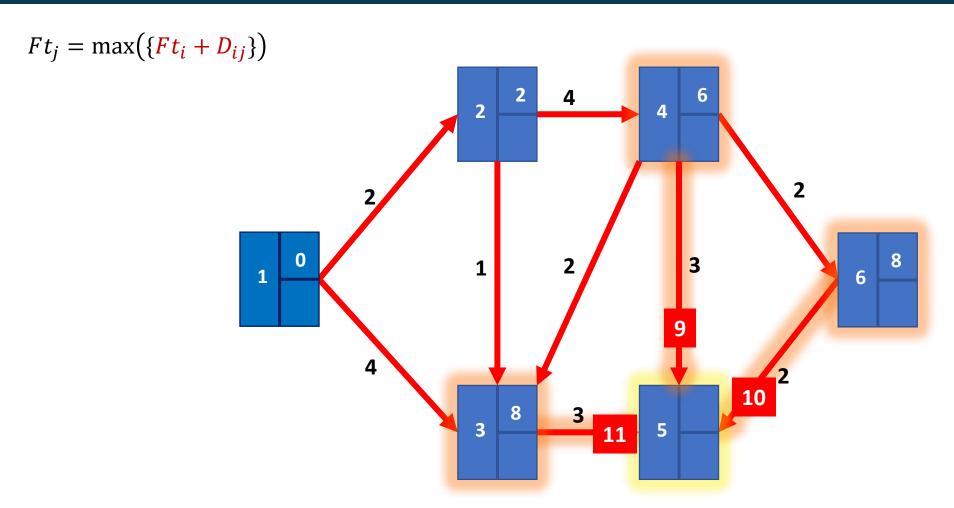






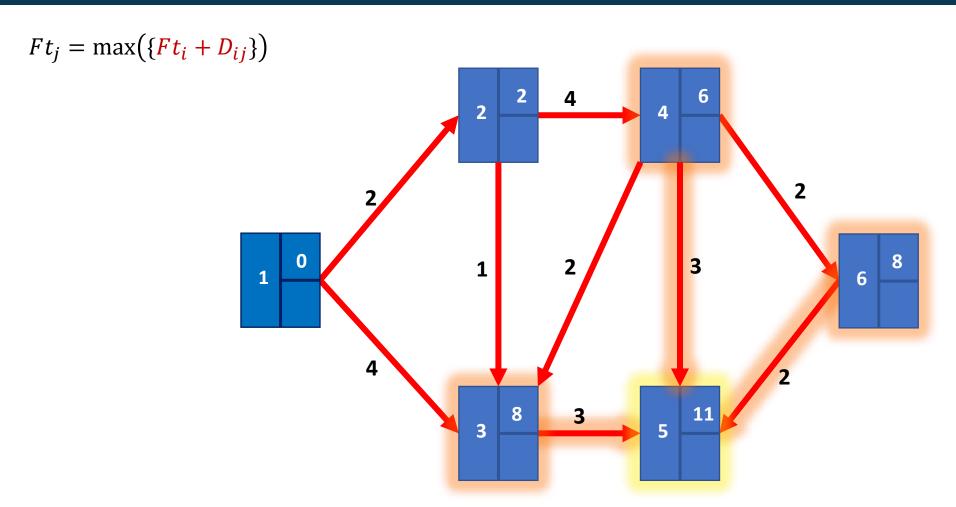








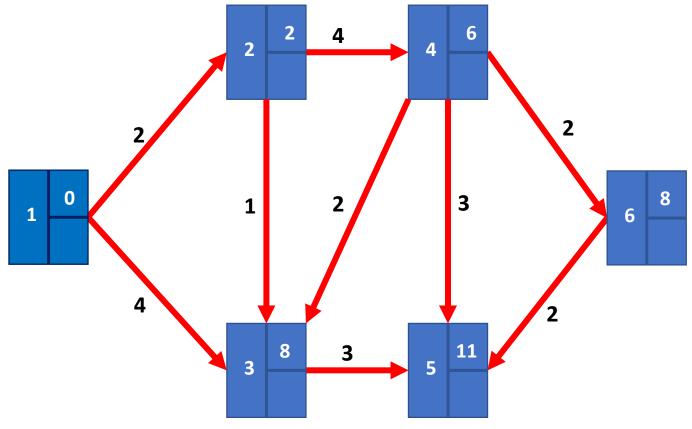








$$Ft_j = \max(\{Ft_i + D_{ij}\})$$





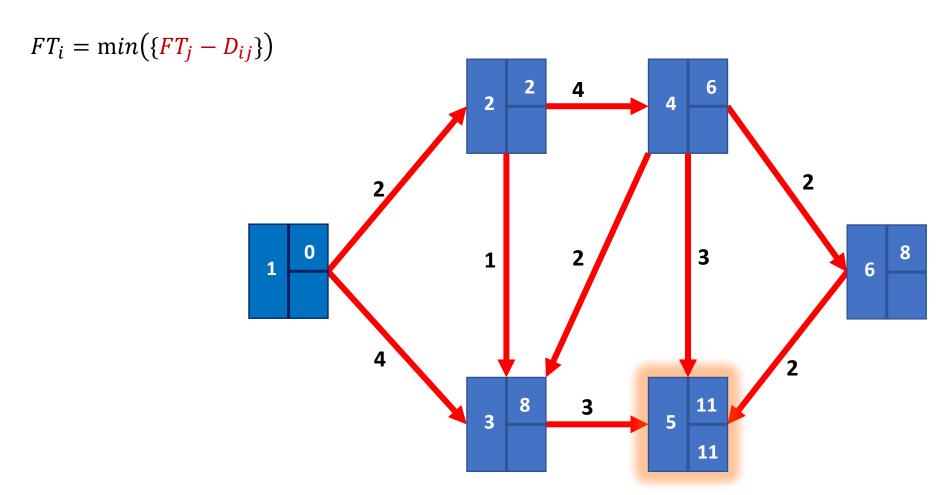


Método del Camino Crítico (CPM)

Procedimiento general:

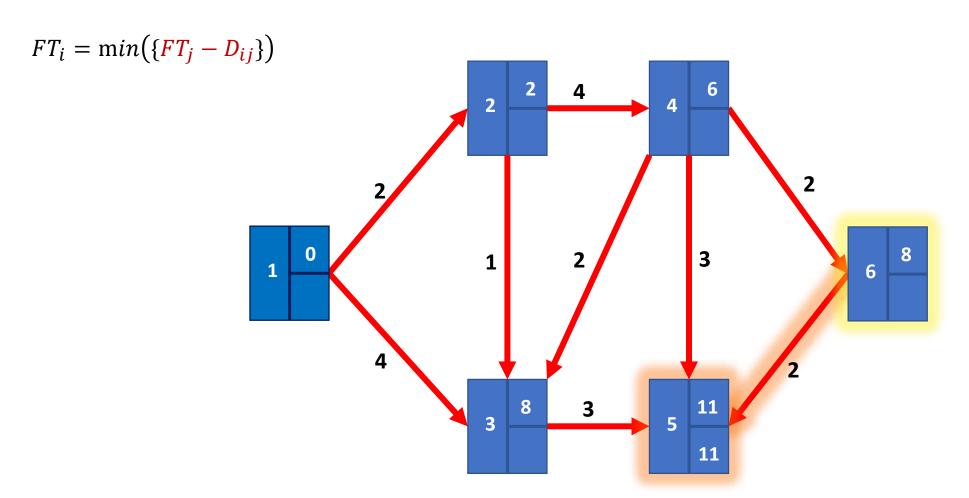
- 1- Crear grafo de proyectos.
- 2- Calcular fechas tempranas.
- 3- Calcular fechas tardías.
- 4- Calcular métricas, especialmente margen total.
- 5- Determinar tareas críticas.



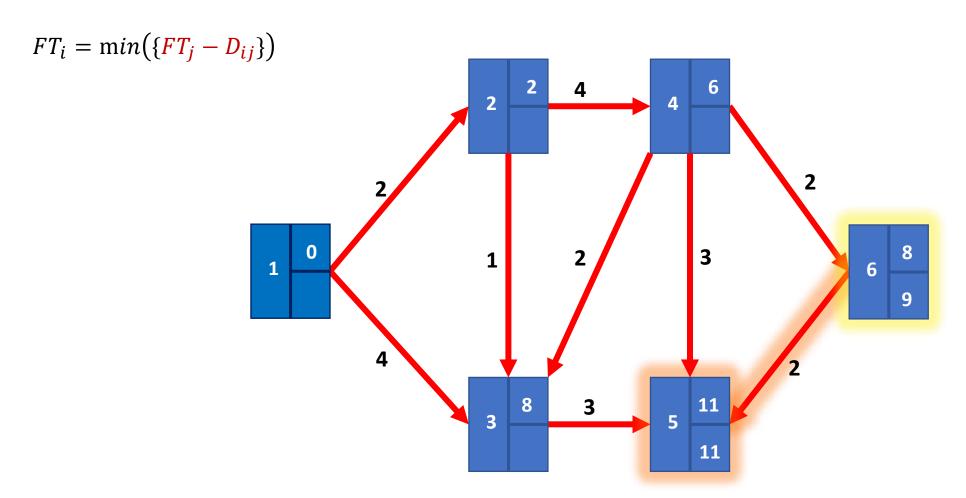






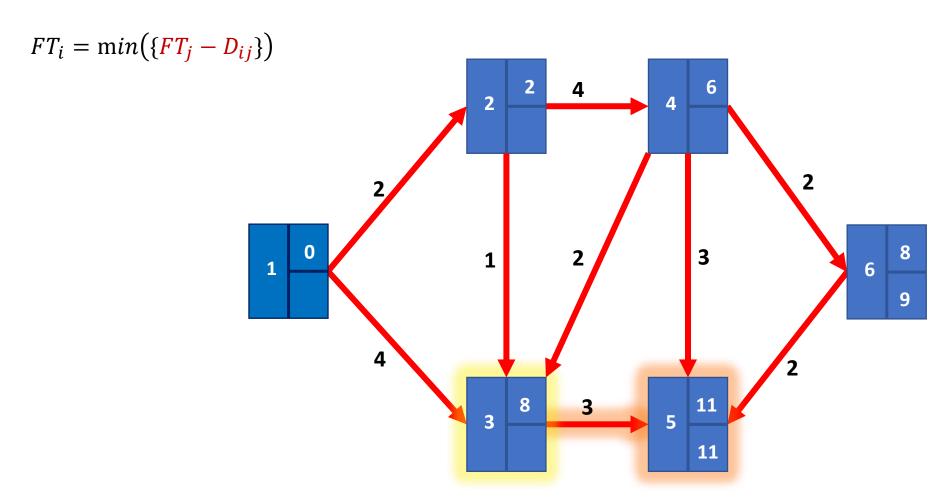






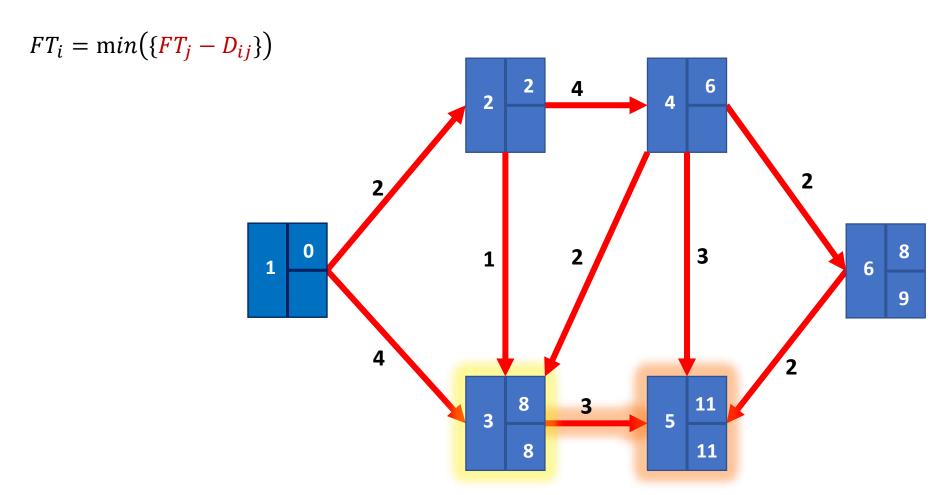






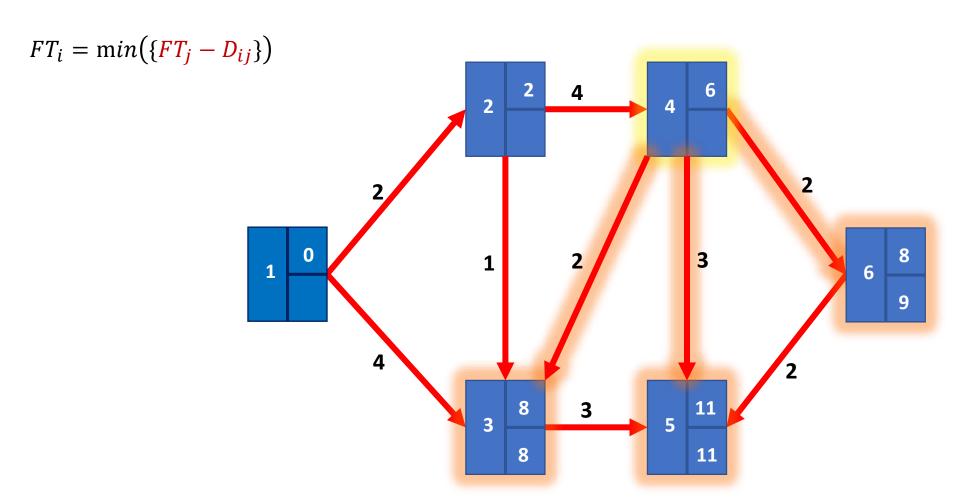






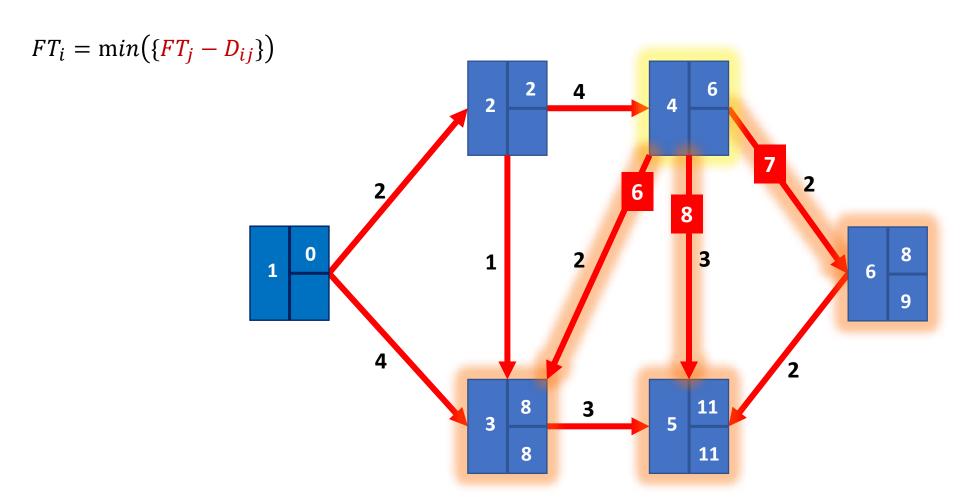






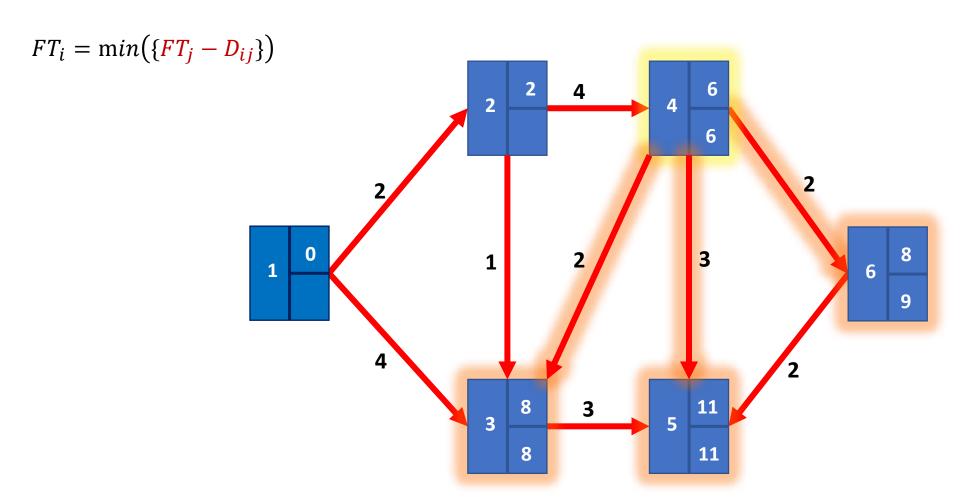






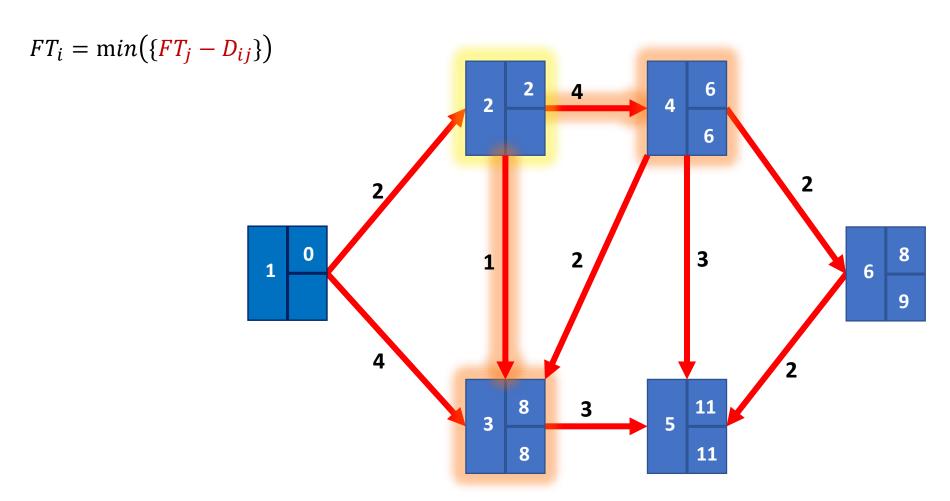






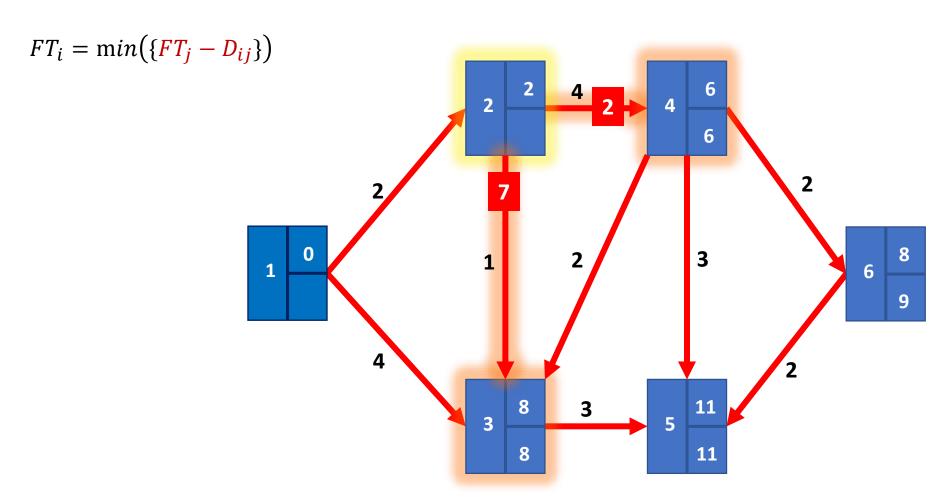






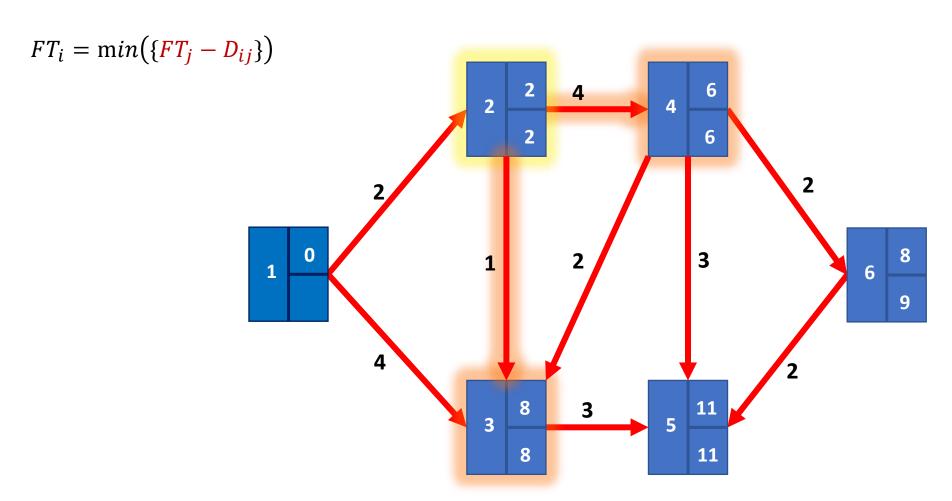






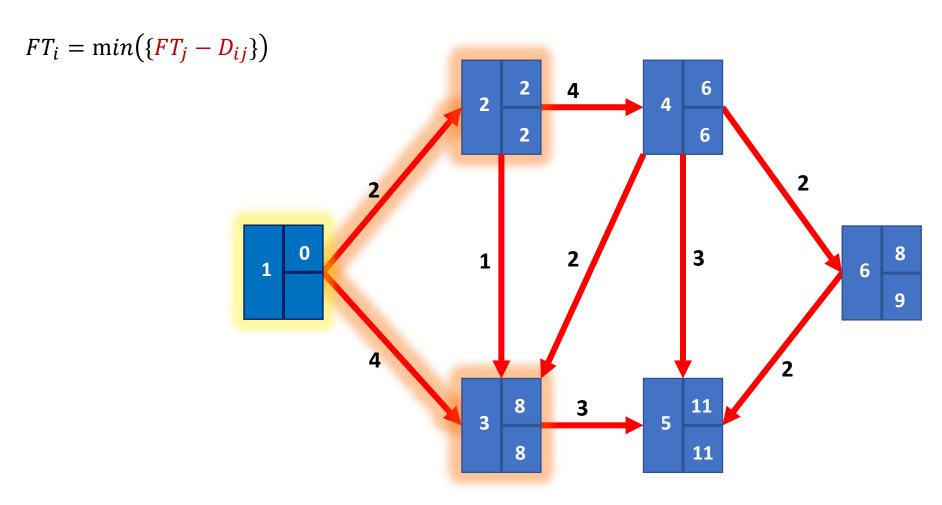






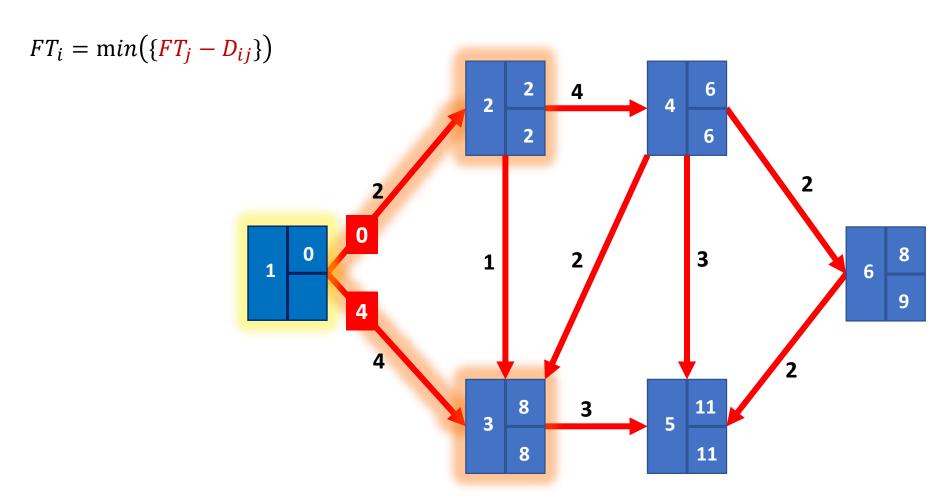






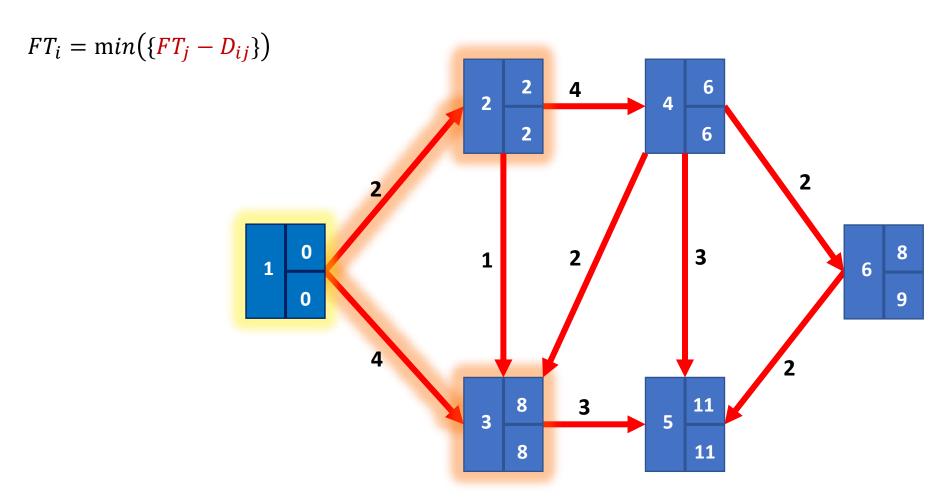






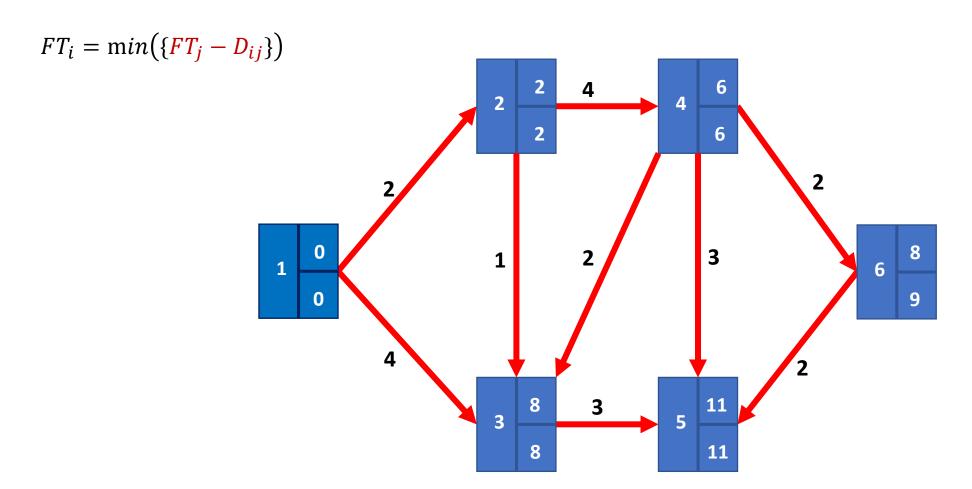














Finalización del proyecto en 11 semanas.



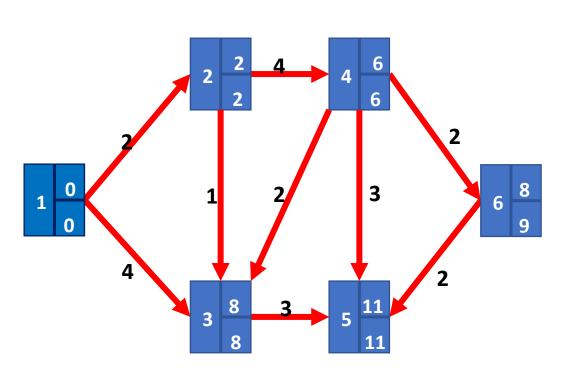
Método del Camino Crítico (CPM)

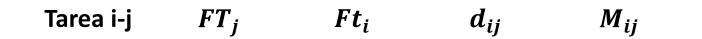
Procedimiento general:

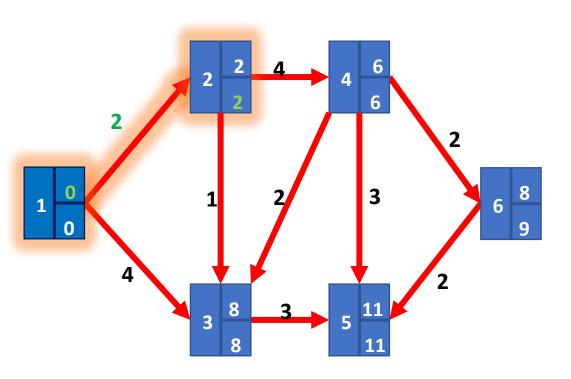
- 1- Crear grafo de proyectos.
- 2- Calcular fechas tempranas.
- 3- Calcular fechas tardías.
- 4- Calcular métricas, especialmente margen total.
- 5- Determinar tareas críticas.



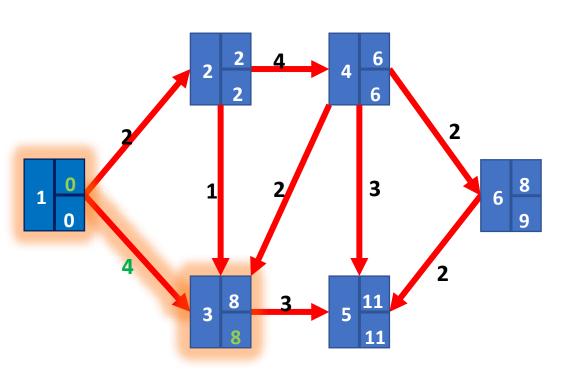
Cálculo de margen total



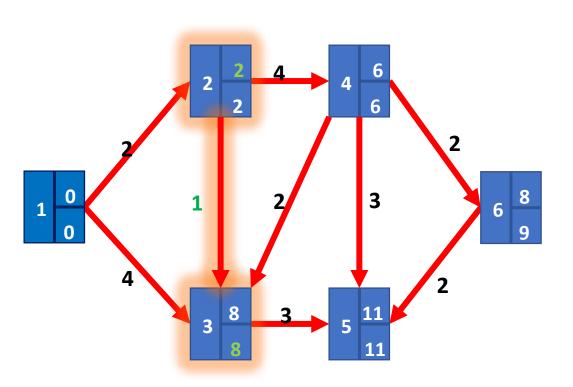




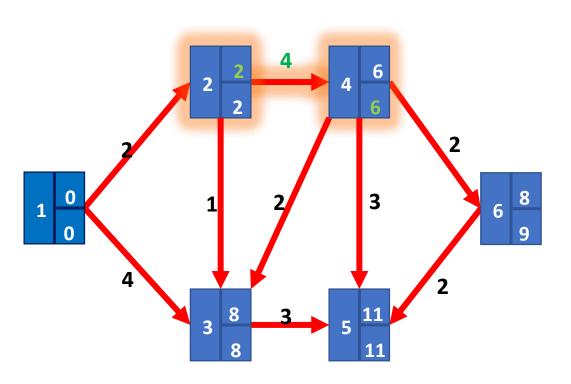
Tarea i-j	FT_j	Ft_i	d_{ij}	\boldsymbol{M}_{ij}
1-2	2	0	2	0



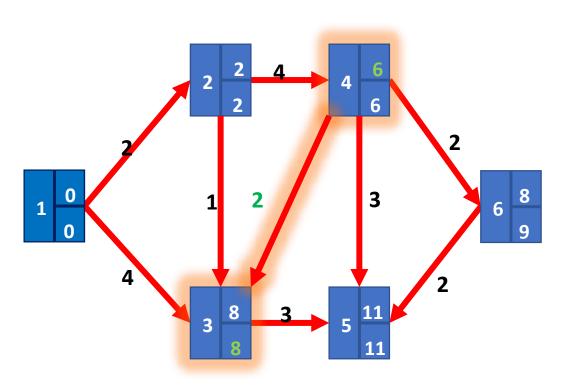
Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4



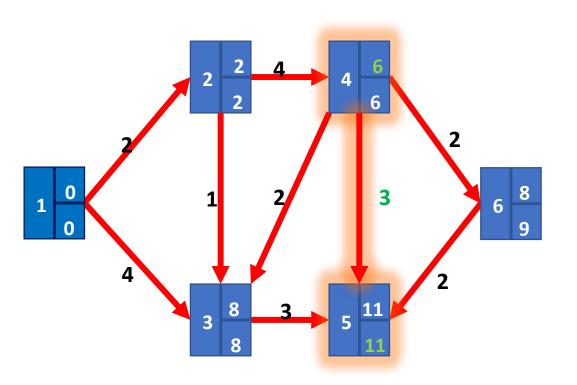
Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5



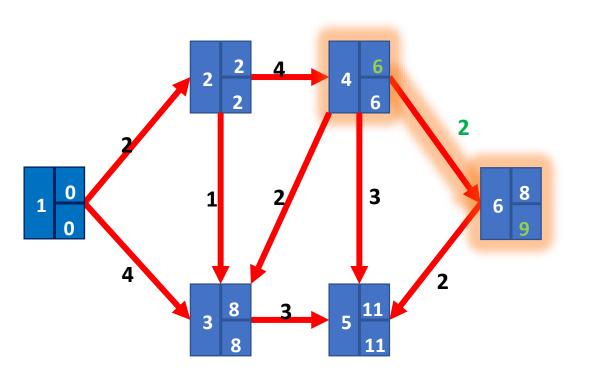
Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0



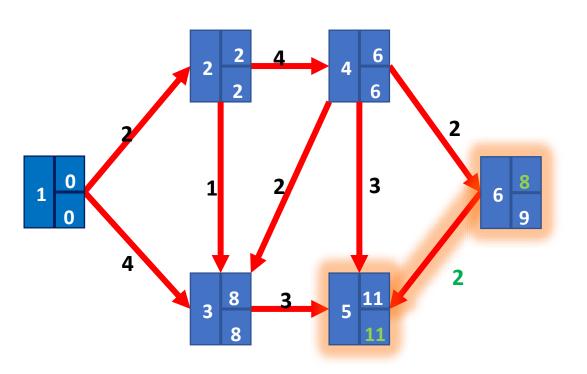
Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0



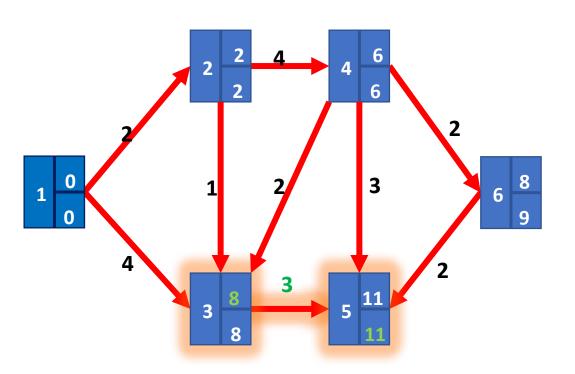
Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0
4-5	11	6	3	2



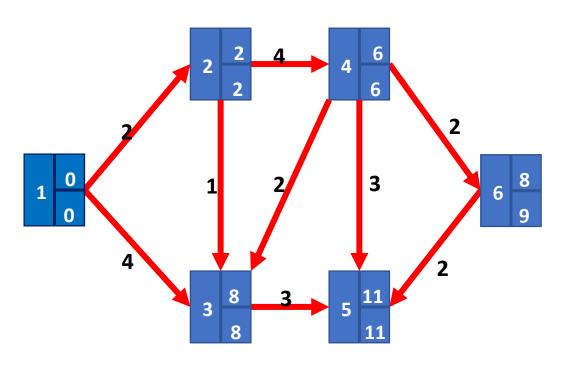
Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0
4-5	11	6	3	2
6-4	9	6	2	1



Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0
4-5	11	6	3	2
6-4	9	6	2	1
6-5	11	8	2	1



Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0
4-5	11	6	3	2
6-4	9	6	2	1
6-5	11	8	2	1
3-5	11	8	3	0



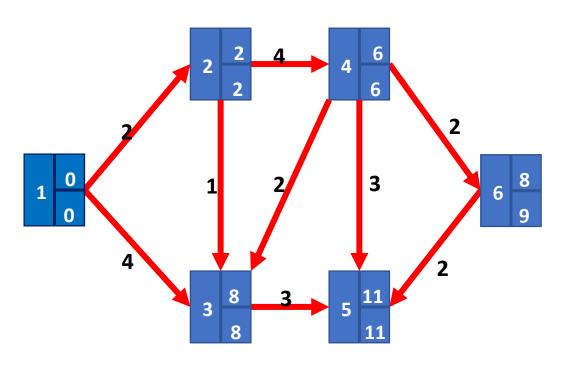
Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0
4-5	11	6	3	2
6-4	9	6	2	1
6-5	11	8	2	1
3-5	11	8	3	0

Método del Camino Crítico (CPM)

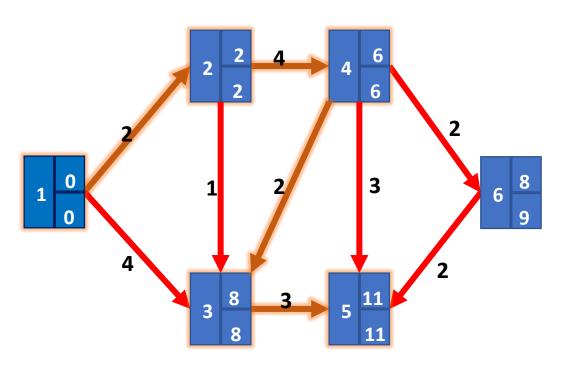
Procedimiento general:

- 1- Crear grafo de proyectos.
- 2- Calcular fechas tempranas.
- 3- Calcular fechas tardías.
- 4- Calcular métricas, especialmente margen total.
- 5- Determinar tareas críticas.





Tarea i-j	FT_j	Ft_i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0
4-5	11	6	3	2
6-4	9	6	2	1
6-5	11	8	2	1
3-5	11	8	3	0



Tarea i-j	FT_j	Ft _i	d_{ij}	M_{ij}
1-2	2	0	2	0
1-3	8	0	4	4
2-3	8	2	1	5
2-4	6	2	4	0
4-3	8	6	2	0
4-5	11	6	3	2
6-4	9	6	2	1
6-5	11	8	2	1
3-5	11	8	3	0