

1) DM ya que no se especifica el deadline y solo se da $D \leq T$?

EDF ya que los tareas se ejecutan segun el deadline absoluto.

2)

a)

	c	+ u	
T_1	2	6	2/3
T_2	4	9	4/9
T_3	3	17	3/17

Test folle

no podemos garantizar la planificabilidad

$$2,748 \neq L_0(3)$$

b)

$U = 0,748 \leq 1$ Test OK podemos garantizar la planificabilidad

3)

a) En el instante que coincide con el mayor periodo

b) En el instante del hiperperiodo, el MCM de los periodos

4)

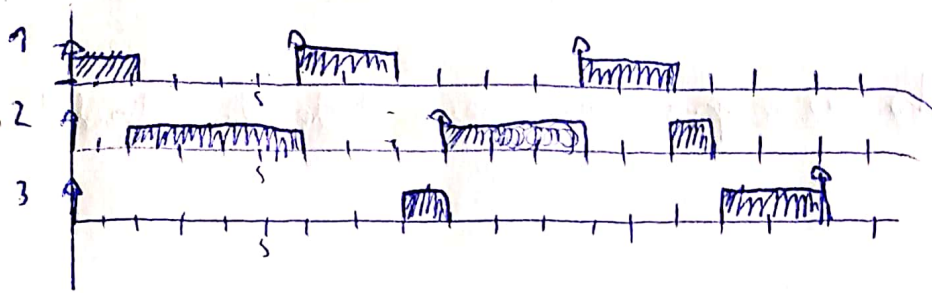
a)

$$T_1 \left| \begin{array}{l} R_1^0 = 2 \\ R_1^1 = 2 \end{array} \right. \quad 5 \leq 6 \quad OK$$

$$T_2 \left| \begin{array}{l} R_2^0 = 4 \\ R_2^1 = 4 + \frac{4R_1}{T_2} \cdot c_2 = 4 + \frac{4 \cdot 2}{6} \cdot 2 = 6 \\ R_2^2 = 4 + \frac{6}{6} \cdot 2 = 6 \end{array} \right. \quad 6 \leq 9 \quad OK$$

$$T_3 \left| \begin{array}{l} R_3^0 = 3 \\ R_3^1 = 3 + \frac{3}{9} \cdot 4 + \frac{3}{6} \cdot 2 = 9 \\ R_3^2 = 3 + \frac{9}{9} \cdot 4 + \frac{9}{6} \cdot 2 = 11 \\ R_3^3 = 3 + \frac{11}{9} \cdot 4 + \frac{11}{6} \cdot 2 = 15 \\ R_3^4 = 3 + \frac{15}{9} \cdot 4 + \frac{15}{6} \cdot 2 = 17 \end{array} \right. \quad R_3^5 = 3 + \frac{17}{9} \cdot 4 + \frac{17}{6} \cdot 2 = 17 \quad OK$$

⑬



OK

⑤

	C	T
1	2	6
2	4	10
3	3	15

②

$$1 \begin{cases} R_1^0 = 0 \\ R_1^1 = 0 \end{cases} \quad \text{OK}$$

$$2 \begin{cases} R_2^0 = 4 \\ R_2^1 = 4 + \left\lceil \frac{2}{6} \right\rceil \cdot 2 = 6 \\ R_2^2 = 4 + \left\lceil \frac{6}{6} \right\rceil \cdot 2 = 6 \end{cases} \quad \text{OK}$$

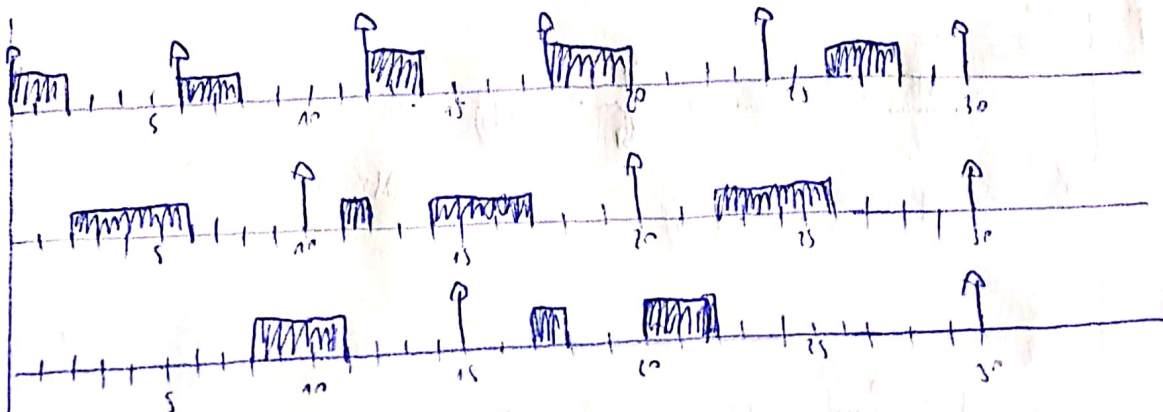
No es planificable

ya que 3

supercede a 2

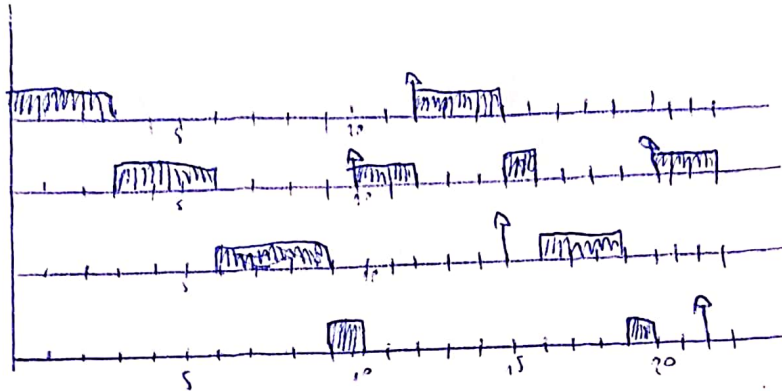
$$3 \begin{cases} R_3^0 = 3 \\ R_3^1 = 3 + \left\lceil \frac{3}{10} \right\rceil \cdot 4 + \left\lceil \frac{3}{6} \right\rceil \cdot 2 = 9 \\ R_3^2 = 3 + \left\lceil \frac{7}{10} \right\rceil \cdot 4 + \left\lceil \frac{9}{6} \right\rceil \cdot 2 = 11 \\ R_3^3 = 3 + \left\lceil \frac{11}{10} \right\rceil \cdot 4 + \left\lceil \frac{11}{6} \right\rceil \cdot 2 = 17 \end{cases} \quad 17 \neq 15$$

④



⑥ Estimar de como se ve que $D \leq T$

⑦



⑧ $R_1=3, R_2=6, R_3=7, R_4=20$

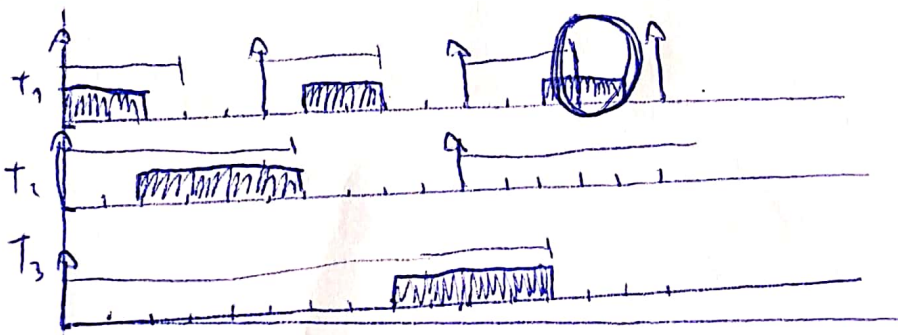
⑨

	ϵ	T	D	U
1	2	5	3	9,667
2	4	10	6	11
3	4	15	12	9,333

$7,667 \neq 1$ test falla

no podemos garantizar la planificabilidad.

⑩



No es planificable

T_1 se pasa del Deadline se pierde 1 unidad de tiempo