T1 (P: 5, E: 2.5 D: 5)

T2 (P: 15, E: 4.5 D: 15)

T3 (P: 20, E: 3.5 D: 20)

U = Σ (E/P) for all tasks

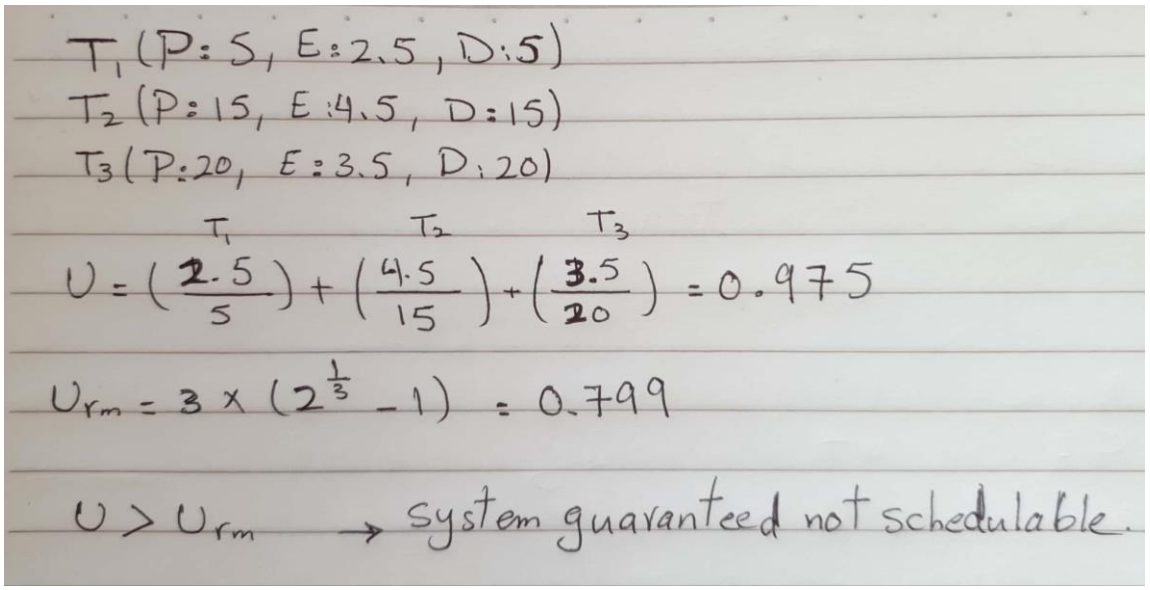
= (2.5/5) + (4.5/15) + (3.5/20) = 0.975

Urm = 3*(2^(1/3) -1) = 0.799

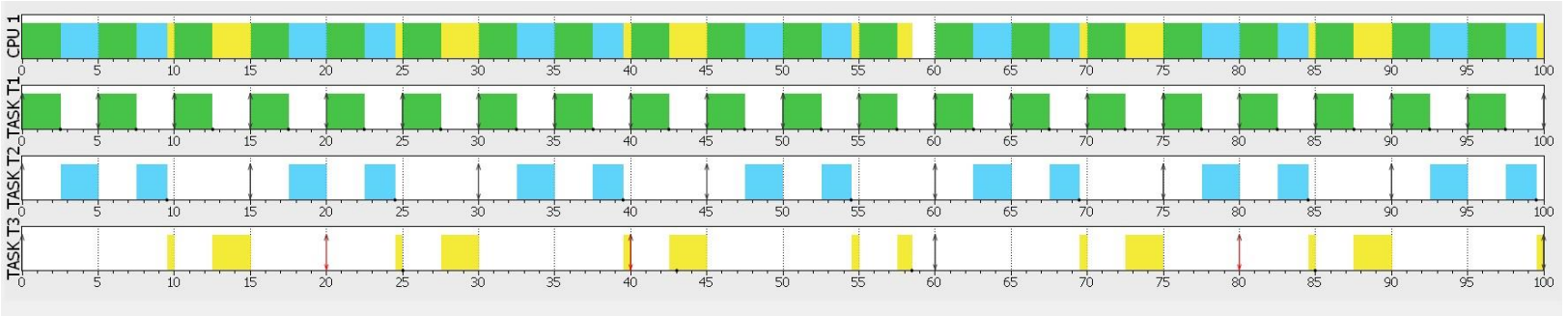
U > Urm then the system is guaranteed to be not schedulable

And will be a task that misses its deadline

Manual calculations:



Simulation:



Task 3 misses its deadline