

COSC609 – Assignment 4

First resource allocation

Task 1 and Task 4 are tied for the tasks with the least slack.

Task 1																				6
Task 2																				7
Task 3																				3
Task 4																				2
Task 5																				4
Task 6																				3
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	SLA
Workers	3	3	3	3	9	9	8	2	0	0										

Second resource allocation

Task 4 now has the smallest slack. We will prioritize it and move task 3 and task 6 forward

Task 1																				6
Task 2																				7
Task 3																				-1
Task 4																				2
Task 5																				4
Task 6																				-1
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	SLA
Workers	3	3	3	3	3	3	2	2	6	6	6									

Third resource allocation

There aren't enough workers to schedule task 3 and task 6 at the same time.
We can just move task 6 forward. Now we're finished

Task 1																				
Task 2																				
Task 3																				
Task 4																				
Task 5																				
Task 6																				
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Workers	3	3	3	3	3	2	2	3	3	3	3	3	3	3						

The new project completion time is 14 days