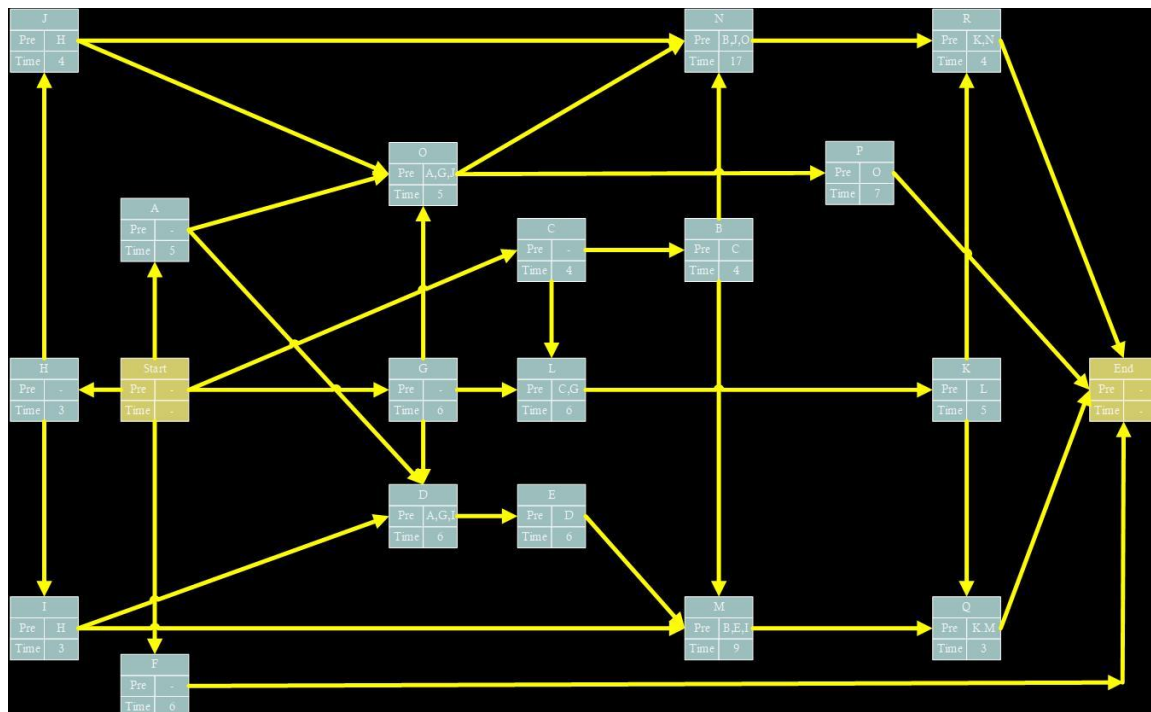


Project Management Assignment

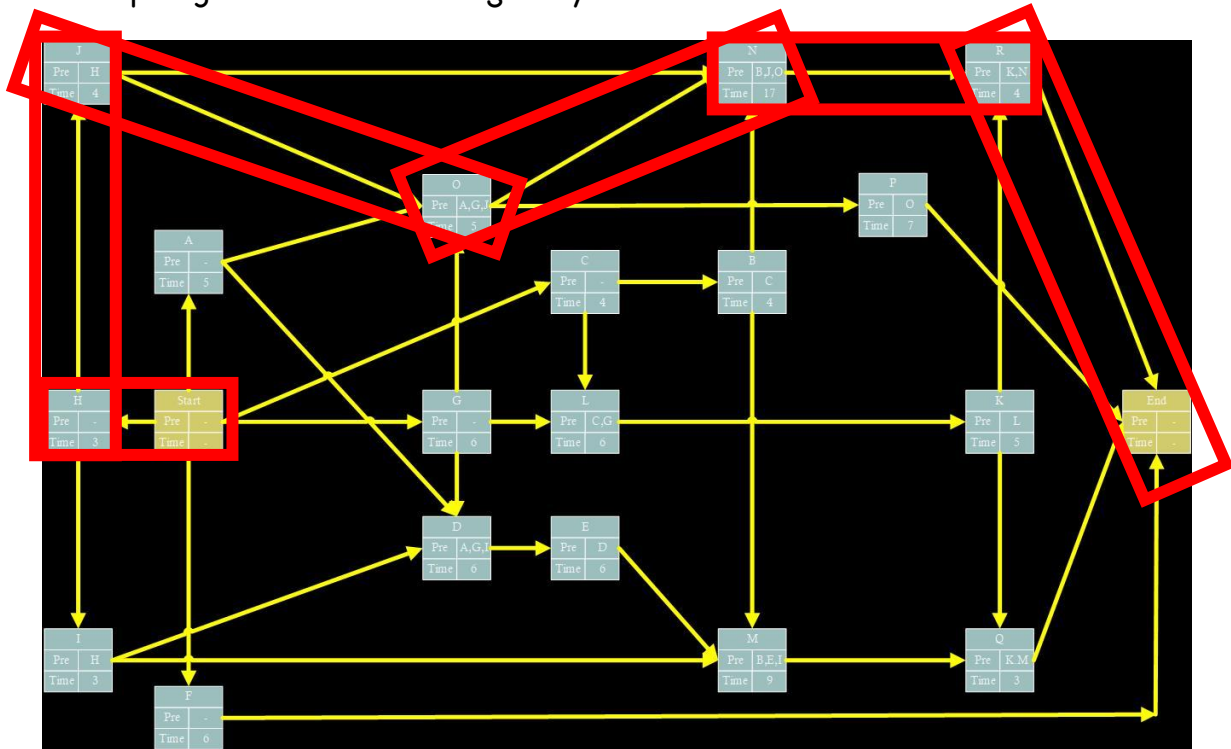
Complete all exercises

TASK	TIME (DAYS)	PREDECESSORS
A. Robotic control module	5	—
B. Texture library	4	C
C. Texture editor	4	—
D. Character editor	6	A, G, I
E. Character animator	6	D
F. Artificial intelligence (for zombies)	6	—
G. Rendering engine	6	—
H. Humanoid base classes	3	—
I. Character classes	3	H
J. Zombie classes	4	H
K. Test environment	5	L
L. Test environment editor	6	C, G
M. Character library	9	B, E, I
N. Zombie library	17	B, J, O
O. Zombie editor	5	A, G, J
P. Zombie animator	7	O
Q. Character testing	3	K, M
R. Zombie testing	4	K, N

1. Draw a PERT chart for these tasks by any drawing program. Include the tasks' letters, predecessors, and expected times.



2. Use critical path methods to find the total expected time from the project's start for each task's completion. Find the critical path (highlight the critical path). What are the tasks on the critical path? What is the total expected duration of the project in working days?

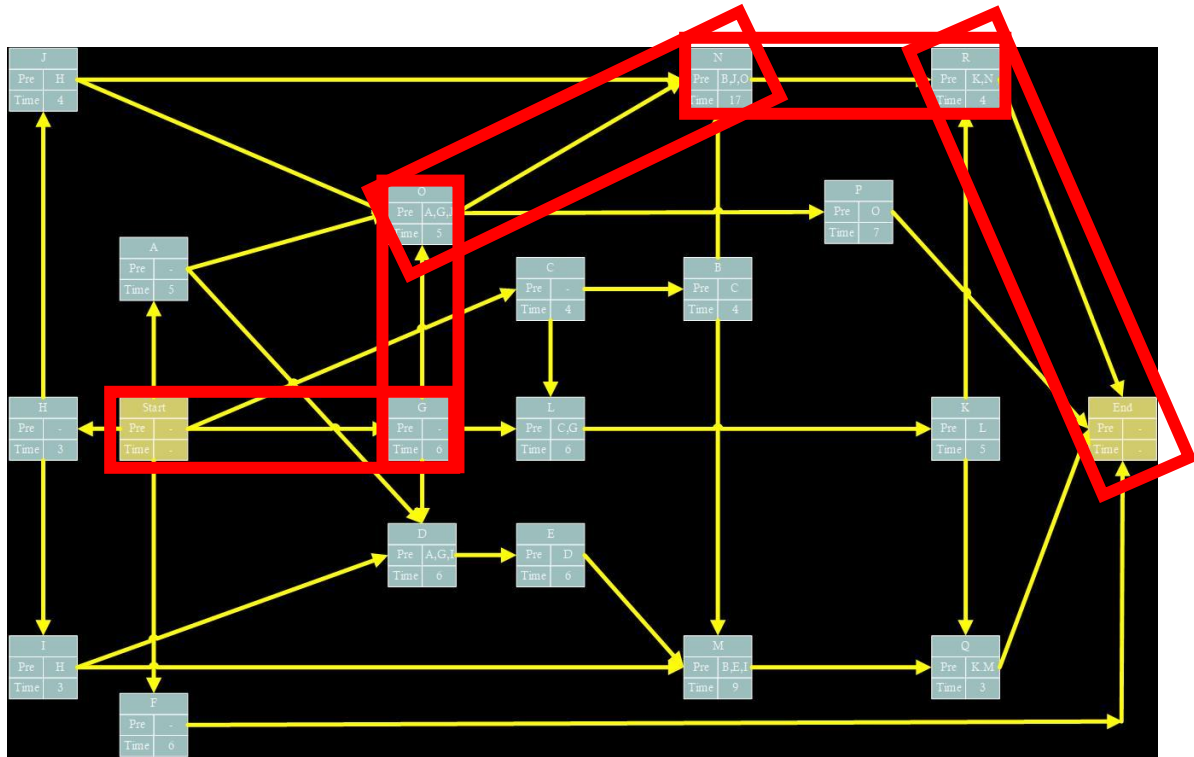


Critical path

Start -> Humanoid base classes -> Zombie classes -> Zombie editor
-> Zombie library -> Zombie testing -> End

And this will take 33 day

3. How long is the second-longest path in the PERT network you built for Exercise 2? What tasks lie along a second-longest path? By how much could the tasks on the path slip before impacting the project's total time?



Second-longest path

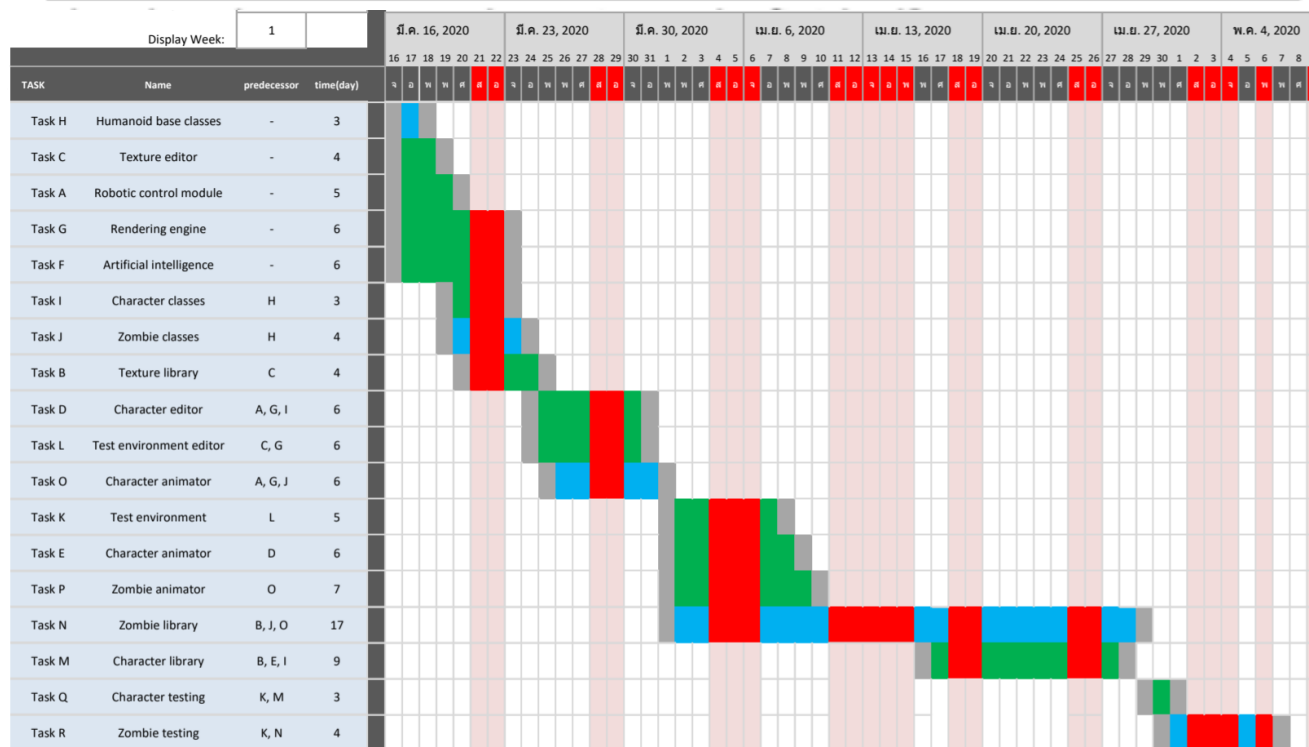
Start → Rendering engine → Zombie editor → Zombie Library
→ Zombie testing → End

The task that takes the longest time in the second-longest path is a Zombie Library and it takes 17 days.

and the task that can impact the project is task B, J, O because task N is required those to continue so if those tasks delay it will impact the project time

- Build a Gantt chart using the Excel spreadsheet program for the network you drew in Exercise 2. The Gantt chart Start on Monday, March 16, 2020, and don't work on weekends or the following holidays:

HOLIDAY	DATE
Chakri Memorial Day	April 6
Songkran Festival	April 13-15
Coronation Day	May 4
Visakha Bucha Day	May 6



Blue path is a critical path

- What date do you expect the project to be finished?

From Gantt Chart it looks like this project will finish on 7th of May