

Challenge 7 Rubric: Swarm
What the scores mean

General (0-5, 5 is highest)	Rating	Max	0	1	2	3	4	5
Quality of solution		5	Nonfunctional	Some elements missing or nonfunctional, unreliable	Meets requirements, but possibly flaky performance	Meets requirements and performs function as specified. Robust	Exceeds requirements. Evidence of solution going beyond baseline.	Well thought out, design decisions supported; extensible for future challenges
Quality of written presentation		3	Not posted	Lack of depth on content. Just repeating the assignment statement.	Evidence of technical knowledge and challenges solved shown above baseline	Clear, concise, complete, articulate. Depth of technical discourse.		
Quality of code management on github		3	Not posted	Little or no management	Average	Exceptional. Show branching, merging, commits		
Quality of oral presentation (presenter only)		3	Not posted	Long, disorganized, incomplete, incoherent	Average	Clear, concise, complete, articulate		
Quality of video		3	Not posted	Long, disorganized, incomplete, incoherent	Average	Clear, concise, complete, articulate		

Other qualitative

Well-defined state diagram and/or software architecture		3	None	As code	Sketched but sketchy	Well defined and graphic
Use of arbitrary number of devices		1	No	Yes		
Clean wiring on breadboard		1	No	Yes		
Repeatable behavior		1	No	Yes		

Required elements (0/1, 1=met)

PPT, video, link to github provided in single posting		1	No	Yes
Elects leader at startup		1	No	Yes
Elects leader when leader dies		1	No	Yes
Infects non-leader that arrives late		1	No	Yes
Two leaders when two isolated networks		1	No	Yes
Leader can clear infection; infection and clear reaches all devices		1	No	Yes

Total Qualitative	0	23
Total Met Requirements	0	6

Quintile (1/2/3/4/5), 1 is highest		1
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