## System Programming (MEEC/MEAer) Project Assignment 2019/2020

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Server minimum functionalities	8.0 Values	Concluded/Correct (100 %)			
<ul> <li>player connection</li> <li>kick out if there is no space</li> <li>update of the number of fruits</li> <li>unique ID</li> </ul>	+ 0.5 Values	Concluded/Correct (100 %)			
2 movements per second	+ 1.0 Values	Concluded/Correct (95 %)			
	Pode existir um pequeno delay				
Character inactivity (30 s + random)	+ 1.0 Values Concluded/Correct (95 %)				
	Pode existir um pequeno delay				
Fruits eating	+ 0.5 Values	Concluded/Correct ( 100 %)			
Superpowerd pacman	+ 0.5 Values	Concluded/Correct ( 100 %)			
Character interaction (MM MP SPM)  • Same player  • Montsre – pacman  • Superpowered pacman - monster	+ 1.0 Values	Concluded/Correct ( 100 %)			

Bounce on bricks	+ 0.5 Values	Concluded/Correct ( 100 %)		
Bounce on walls	+ 0.5 Values	Concluded/Correct ( 100 %)		
Game score board sending	+ 0.5 Values	Concluded/Correct ( 30 %)		
	É guardada a informação validada, mas não é enviada nem imprimida para o cliente.			
player disconnect (release resources	+ 0.5 Values	Concluded/Correct ( 95 %)		
<ul> <li>Correct disconnect of clients</li> <li>Correct management (destruction) of threads, sockets, memory</li> <li>Update fruits</li> </ul>	Quando o server se desconecta, a libertação de memória utilizada pode não ser total.			
Project organization/quality	+ 1.0 Values	Concluded/Correct ( 85 %)		
<ul> <li>Correct structures (threads, communication channels)</li> <li>Use of the correct algorithms</li> <li>Correct code organization</li> <li>Efficient communication</li> </ul>	O server.c podia estar mais organizado.			
Synchronization	+ 2.0 Values	Concluded/Correct ( 95 %)		
<ul> <li>Definition of the various critical regions and implementation of correct synchronization</li> </ul>	Tudo sincronizado, mas algumas critical regions são grandes, embora não comprometam performance.			
<ul> <li>Verification, correction of communication errors</li> <li>Verification, correction of execution</li> </ul>	+ 1.0 Values Concluded/Correct ( 90 %)  Não temos a certeza, mas achamos que um cliente pirata pode corromper o nosso sistema de comunicação.			
errors				
Code Structure     Correct implementation of suitable function to encapsulate functionalities	+ 0.5 Values	Concluded/Correct ( 95 %)\		
Report	+ 0.5 Values	Concluded/Correct ( 60 %)		
	Em desenvolvimento.			

Discussion	+ 0.5 Values	Concluded/Correct (	100	%)
	Alunos eloquentes			