



# USE CASE LISTING:

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# USE CASE LISTING:



1	User enters a valid IP address	P	9	A Player collides with their own projectile	P
2	User enters an invalid IP address	P	10	Entities are added and removed from play	P
3	USER ENTERS A VALID IP ADDRESS AND AN INVALID PORT NUMBER	P	11	ENTITIES COLLIDE WITH PROJECTILES	P
4	User presses and holds w, a, s, d, i, j, k, or l	P	12	Server receives Client Request to change entity data	P
5	USER PRESSES AND HOLDS W, A, S, D, I, J, K, OR L, AND THEN SWITCHES TO ANOTHER KEY	P	13	SERVER RECEIVES CLIENT REQUEST FOR AN ENTITY'S DATA	P
6	USER MOVES OFF SCREEN AND THEN ATTEMPTS TO RETURN	P	14	Game Spawn prompts Obstacle Generation	P
7	A projectile is spawned and travels in the direction of the player	P	15	Client disconnects from Server	P
8	A Player collides with an enemy projectile	P	_		

### STATIC ANALYSIS RESULTS:

#	Rule Description	Occurrence
331 S	Literal Value Requires a U Suffix	435
302 S	Comment Possibly Contains Code	51
329 S	Operation not Appropriate for Plain Char	27
41 D	Procedure Called Has no Prototype Declared	20
63 D	No Definition in System for Prototyped Procedure	19
49 S	Logical Conjunctions Need Brackets	13

### **DYNAMIC ANALYSIS RESULTS:**

#### **GAME SERVER**

Class/Filename	# of Lines of Code	% Statement Coverage	Lines of Untested Code
gameserverdialog.cpp	301	88.04%	36
gameserverdialog.h	0	0	0
main.cpp	5	100%	0
mytcpserver.cpp	9	100%	0
mytcpserver.h	0	0	0
Totals	315	88.57%	36

## **DYNAMIC ANALYSIS RESULTS:**

#### **GAME**

Class/Filename	# of Lines of Code	% Statement Coverage	Lines of Untested Code
defs.h	0	0	0
enemies.cpp	2	0	2
enemies.h	0	0	0
entityanimation.cpp	45	73.33%	12
entityanimation.h	0	0	0
main.cpp	5	100%	0
mainwindow.cpp	252	98.41%	4
mainwindow.h	0	0	0
player.cpp	67	86.57%	9
player.h	0	0	0
projectile.cpp	55	58%	23
projectile.h	0	0	0
sidescrollentity.cpp	194	94.85%	10
sidescrollentity.h	0	0	0
sidescrollscene.cpp	2	0	2
sidescrollscene.h	0	0	0
Totals	622	90.03%	62