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COMP249  
Assignment #: 1  
Due Date: September 21, 2018

## Game Console Output

~ ~ Begin Setup ~ ~

~ Setup Player: human ~

Placing Ships

Please choose a ship coordinate in the range of [1A - 8H]:1E

Please choose a ship coordinate in the range of [1A - 8H]:6B

Please choose a ship coordinate in the range of [1A - 8H]:2E

Please choose a ship coordinate in the range of [1A - 8H]:1A

Please choose a ship coordinate in the range of [1A - 8H]:1B

Please choose a ship coordinate in the range of [1A - 8H]:1C

Placing Grenades

Please choose a grenade coordinate in the range of [1A - 8H]:2A

Please choose a grenade coordinate in the range of [1A - 8H]:2B

Please choose a grenade coordinate in the range of [1A - 8H]:2C

Please choose a grenade coordinate in the range of [1A - 8H]:2D

~ End human Setup ~

~ Setup Player: computer ~

Placing Ships

Placing Grenades

~ End computer Setup ~

~ ~Setup Finished ~ ~

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:3A

Nothing happened.

```
1~ _ _ _ _ _ _ _ _
2~ _ _ _ _ _ _ _ _
3~* _ _ _ _ _ _ _ _
4~ _ _ _ _ _ _ _ _
5~ _ _ _ _ _ _ _ _
6~ _ _ _ _ _ _ _ _
7~ _ _ _ _ _ _ _ _
8~ _ _ _ _ _ _ _ _
   A B C D E F G H
```

My turn:

computer fired at: 8C

Nothing happened.

```
1~ _ _ _ _ _ _ _ _
2~ _ _ _ _ _ _ _ _
3~* _ _ _ _ _ _ _ _
4~ _ _ _ _ _ _ _ _
5~ _ _ _ _ _ _ _ _
6~ _ _ _ _ _ _ _ _
7~ _ _ _ _ _ _ _ _
8~ _ _ * _ _ _ _ _
   A B C D E F G H
```

```
Please choose a fire coordinate in the range of [1A - 8H]:5F
Nothing happened.
```

```
computer fired at: 4E
Nothing happened.
```

```
Please choose a fire coordinate in the range of [1A - 8H]:4D
Nothing happened.
```

```
computer fired at: 3E
Nothing happened.
```

```
Please choose a fire coordinate in the range of [1A - 8H]:3G
BOOM!!! computer's grenade was hit.
human's next turn will be skipped.
```

1~  
2~

3~*	-	-	-	*	-	G	-
4~	-	-	-	*	*	-	-
5~	-	-	-	-	*	-	-
6~	-	-	-	-	-	-	-
7~	-	-	-	-	-	-	-
8~	-	-	*	-	-	-	-
	A	B	C	D	E	F	G

My turn:  
computer fired at: 5B  
Nothing happened.

1~	-	-	-	-	-	-	-
2~	-	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	-	-	-	*	*	-	-
5~	*	-	-	-	*	-	-
6~	-	-	-	-	-	-	-
7~	-	-	-	-	-	-	-
8~	-	-	*	-	-	-	-
	A	B	C	D	E	F	G

Your turn:  
Turn was skipped.

1~	-	-	-	-	-	-	-
2~	-	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	-	-	-	*	*	-	-
5~	*	-	-	-	*	-	-
6~	-	-	-	-	-	-	-
7~	-	-	-	-	-	-	-
8~	-	-	*	-	-	-	-
	A	B	C	D	E	F	G

My turn:  
computer fired at: 4B  
computer's ship was hit.

1~	-	-	-	-	-	-	-
2~	-	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	S	-	*	*	-	-	-
5~	*	-	-	-	*	-	-
6~	-	-	-	-	-	-	-
7~	-	-	-	-	-	-	-
8~	-	-	*	-	-	-	-
	A	B	C	D	E	F	G

Your turn:  
Please choose a fire coordinate in the range of [1A - 8H]:6E  
Nothing happened.

1~	-	-	-	-	-	-	-
2~	-	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	S	-	*	*	-	-	-
5~	*	-	-	-	*	-	-
6~	-	-	-	*	-	-	-
7~	-	-	-	-	-	-	-
8~	-	-	*	-	-	-	-
	A	B	C	D	E	F	G

My turn:  
 computer fired at: 7F  
 BOOM!!! computer's grenade was hit.  
 computer's next turn will be skipped.

1~	-	-	-	-	-	-	-	
2~	-	-	-	-	-	-	-	
3~*	-	-	-	*	-	G	-	
4~	S	-	*	*	-	-	-	
5~	*	-	-	-	*	-	-	
6~	-	-	-	*	-	-	-	
7~	-	-	-	-	G	-	-	
8~	-	-	*	-	-	-	-	
	A	B	C	D	E	F	G	H

Your turn:  
 Please choose a fire coordinate in the range of [1A - 8H]:6C  
 Nothing happened.

1~	-	-	-	-	-	-	-	
2~	-	-	-	-	-	-	-	
3~*	-	-	-	*	-	G	-	
4~	S	-	*	*	-	-	-	
5~	*	-	-	-	*	-	-	
6~	-	*	-	*	-	-	-	
7~	-	-	-	-	G	-	-	
8~	-	-	*	-	-	-	-	
	A	B	C	D	E	F	G	H

My turn:  
 Turn was skipped.

1~	-	-	-	-	-	-	-	
2~	-	-	-	-	-	-	-	
3~*	-	-	-	*	-	G	-	
4~	S	-	*	*	-	-	-	
5~	*	-	-	-	*	-	-	
6~	-	*	-	*	-	-	-	
7~	-	-	-	-	G	-	-	
8~	-	-	*	-	-	-	-	
	A	B	C	D	E	F	G	H

Your turn:  
 Please choose a fire coordinate in the range of [1A - 8H]:4G  
 computer's ship was hit.

1~	-	-	-	-	-	-	-	
2~	-	-	-	-	-	-	-	
3~*	-	-	-	*	-	G	-	
4~	S	-	*	*	-	S	-	
5~	*	-	-	-	*	-	-	
6~	-	*	-	*	-	-	-	
7~	-	-	-	-	G	-	-	
8~	-	-	*	-	-	-	-	
	A	B	C	D	E	F	G	H

My turn:  
 computer fired at: 2B  
 BOOM!!! human's grenade was hit.  
 computer's next turn will be skipped.

1~	-	-	-	-	-	-	-
----	---	---	---	---	---	---	---

2~	g	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	S	-	*	*	-	S	-
5~	*	-	-	-	*	-	-
6~	-	*	-	*	-	-	-
7~	-	-	-	-	G	-	-
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	G

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:7D  
computer's ship was hit.

1~	-	-	-	-	-	-	-
2~	g	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	S	-	*	*	-	S	-
5~	*	-	-	-	*	-	-
6~	-	*	-	*	-	-	-
7~	-	-	S	-	G	-	-
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	G

My turn:

Turn was skipped.

1~	-	-	-	-	-	-	-
2~	g	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	S	-	*	*	-	S	-
5~	*	-	-	-	*	-	-
6~	-	*	-	*	-	-	-
7~	-	-	S	-	G	-	-
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	G

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:5G  
computer's ship was hit.

1~	-	-	-	-	-	-	-
2~	g	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	S	-	*	*	-	S	-
5~	*	-	-	-	*	S	-
6~	-	*	-	*	-	-	-
7~	-	-	S	-	G	-	-
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	G

My turn:

computer fired at: 6B  
human's ship was hit.

1~	-	-	-	-	-	-	-
2~	g	-	-	-	-	-	-
3~*	-	-	-	*	-	G	-
4~	S	-	*	*	-	S	-
5~	*	-	-	-	*	S	-
6~	s	*	-	*	-	-	-
7~	-	-	S	-	G	-	-
8~	-	*	-	-	-	-	-

A B C D E F G H

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:5D

BOOM!!! computer's grenade was hit.

human's next turn will be skipped.

```

1~ _ _ _ _ _ _ _
2~ _ g _ _ _ _ _
3~ * _ _ * _ G _
4~ _ S _ * _ S _
5~ _ * _ G _ * S _
6~ _ s * _ * _ _
7~ _ _ _ S _ G _
8~ _ _ * _ _ _ _
  A B C D E F G H

```

My turn:

computer fired at: 3F

Nothing happened.

```

1~ _ _ _ _ _ _ _
2~ _ g _ _ _ _ _
3~ * _ _ * _ G _
4~ _ S _ * _ S _
5~ _ * _ G _ * S _
6~ _ s * _ * _ _
7~ _ _ _ S _ G _
8~ _ _ * _ _ _ _
  A B C D E F G H

```

Your turn:

Turn was skipped.

```

1~ _ _ _ _ _ _ _
2~ _ g _ _ _ _ _
3~ * _ _ * _ G _
4~ _ S _ * _ S _
5~ _ * _ G _ * S _
6~ _ s * _ * _ _
7~ _ _ _ S _ G _
8~ _ _ * _ _ _ _
  A B C D E F G H

```

My turn:

computer fired at: 7C

computer's ship was hit.

```

1~ _ _ _ _ _ _ _
2~ _ g _ _ _ _ _
3~ * _ _ * _ G _
4~ _ S _ * _ S _
5~ _ * _ G _ * S _
6~ _ s * _ _ _ _

```

7~	-	-	S	S	-	G	-	-
8~	-	-	*					
	A	B	C	D	E	F	G	H

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:6H

Nothing happened.

1~	-	-	-	-	-	-	-	-
2~	g	-	-	-	-	-	-	-
3~*	-	-	-	*	*	G	-	-
4~	S	-	*	*	-	S	-	-
5~	*	-	G	-	*	S	-	-
6~	s	*	-	*	-	-	*	-
7~	-	-	S	S	-	G	-	-
8~	-	-	*					
	A	B	C	D	E	F	G	H

My turn:

computer fired at: 2E

human's ship was hit.

1~	-	-	-	-	-	-	-	-
2~	g	-	-	S	-	-	-	-
3~*	-	-	-	*	*	G	-	-
4~	S	-	*	*	-	S	-	-
5~	*	-	G	-	*	S	-	-
6~	s	*	-	*	-	-	*	-
7~	-	-	S	S	-	G	-	-
8~	-	-	*					
	A	B	C	D	E	F	G	H

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:2H

Nothing happened.

1~	-	-	-	-	-	-	-	-
2~	g	-	-	S	-	-	*	-
3~*	-	-	-	*	*	G	-	-
4~	S	-	*	*	-	S	-	-
5~	*	-	G	-	*	S	-	-
6~	s	*	-	*	-	-	*	-
7~	-	-	S	S	-	G	-	-
8~	-	-	*					
	A	B	C	D	E	F	G	H

My turn:

computer fired at: 6B

Position already called.

1~	-	-	-	-	-	-	-	-
2~	g	-	-	S	-	-	*	-
3~*	-	-	-	*	*	G	-	-
4~	S	-	*	*	-	S	-	-
5~	*	-	G	-	*	S	-	-
6~	s	*	-	*	-	-	*	-
7~	-	-	S	S	-	G	-	-
8~	-	-	*					
	A	B	C	D	E	F	G	H

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:7H

Nothing happened.

1~	-	-	-	-	-	-	-
2~	g	-	-	s	-	-	*
3~	*	-	-	*	*	G	-
4~	S	-	*	*	-	S	-
5~	*	-	G	-	*	S	-
6~	s	*	-	*	-	-	*
7~	-	S	S	-	G	-	*
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	H

My turn:

computer fired at: 4C

Nothing happened.

1~	-	-	-	-	-	-	-
2~	g	-	-	s	-	-	*
3~	*	-	-	*	*	G	-
4~	S	*	*	*	-	S	-
5~	*	-	G	-	*	S	-
6~	s	*	-	*	-	-	*
7~	-	S	S	-	G	-	*
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	H

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:4H

Nothing happened.

1~	-	-	-	-	-	-	-
2~	g	-	-	s	-	-	*
3~	*	-	-	*	*	G	-
4~	S	*	*	*	-	S	*
5~	*	-	G	-	*	S	-
6~	s	*	-	*	-	-	*
7~	-	S	S	-	G	-	*
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	H

My turn:

computer fired at: 7G

Nothing happened.

1~	-	-	-	-	-	-	-
2~	g	-	-	s	-	-	*
3~	*	-	-	*	*	G	-
4~	S	*	*	*	-	S	*
5~	*	-	G	-	*	S	-
6~	s	*	-	*	-	-	*
7~	-	S	S	-	G	*	*
8~	-	*	-	-	-	-	-
	A	B	C	D	E	F	H

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:5S

5S is not a valid coordinate of form (Integer, Character) in range [1A - 8H]

>

5H

Nothing happened.

1~	-	-	-	-	-	-	-
2~	g	-	-	s	-	-	*



3~*				*	*	G	
4~	$\bar{S}$	*	*	*		$\bar{S}$	*
5~	*		G		*	$\bar{S}$	*
6~	s	*		*			*
7~		S	$\bar{S}$		$\bar{G}$	*	*
8~		*					
	$\bar{A}$	$\bar{B}$	C	$\bar{D}$	$\bar{E}$	$\bar{F}$	$\bar{G}$

My turn:  
computer fired at: 8D  
Nothing happened.

1~							
2~	g			s			*
3~*				*	*	$\bar{G}$	
4~	$\bar{S}$	*	*	*		$\bar{S}$	*
5~	*		G		*	$\bar{S}$	*
6~	s	*		*			*
7~		S	$\bar{S}$		$\bar{G}$	*	*
8~		*	*				
	$\bar{A}$	$\bar{B}$	C	D	$\bar{E}$	$\bar{F}$	$\bar{G}$

Your turn:  
Please choose a fire coordinate in the range of [1A - 8H]:8H  
Nothing happened.

1~							
2~	g			s			*
3~*				*	*	$\bar{G}$	
4~	$\bar{S}$	*	*	*		$\bar{S}$	*
5~	*		G		*	$\bar{S}$	*
6~	s	*		*			*
7~		S	$\bar{S}$		$\bar{G}$	*	*
8~		*	*				*
	$\bar{A}$	$\bar{B}$	C	D	$\bar{E}$	$\bar{F}$	$\bar{G}$

My turn:  
computer fired at: 4B  
Position already called.

1~							
2~	g			s			*
3~*				*	*	$\bar{G}$	
4~	$\bar{S}$	*	*	*		$\bar{S}$	*
5~	*		G		*	$\bar{S}$	*
6~	s	*		*			*
7~		S	$\bar{S}$		$\bar{G}$	*	*
8~		*	*				*
	$\bar{A}$	$\bar{B}$	C	D	$\bar{E}$	$\bar{F}$	$\bar{G}$

Your turn:  
Please choose a fire coordinate in the range of [1A - 8H]:3H  
Nothing happened.

1~							
2~	g			s			*
3~*				*	*	$\bar{G}$	*
4~	$\bar{S}$	*	*	*		$\bar{S}$	*
5~	*		G		*	$\bar{S}$	*
6~	s	*		*			*
7~		S	$\bar{S}$		$\bar{G}$	*	*
8~		*	*				*
	$\bar{A}$	$\bar{B}$	C	D	$\bar{E}$	$\bar{F}$	$\bar{G}$

A B C D E F G H

My turn:

computer fired at: 5D

Position already called.

```

1~ _ _ _ _ _ _
2~ _ g _ _ s _ _ *
3~ * _ _ _ * _ G _
4~ _ S _ _ _ _ S _
5~ _ * _ G _ _ S _
6~ _ s _ _ _ _ _ *
7~ _ _ S _ _ G _ _
8~ _ _ * _ _ _ _ *
  A B C D E F G H

```

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:5A

BOOM!!! computer's grenade was hit.

human's next turn will be skipped.

```

1~ _ _ _ _ _ _
2~ _ g _ _ s _ _ *
3~ * _ _ _ * _ G _
4~ _ S _ _ _ _ S _
5~ G _ _ G _ _ S _
6~ _ s _ _ _ _ _ *
7~ _ _ S _ _ G _ _
8~ _ _ * _ _ _ _ *
  A B C D E F G H

```

My turn:

computer fired at: 7E

Nothing happened.

```

1~ _ _ _ _ _ _
2~ _ g _ _ s _ _ *
3~ * _ _ _ * _ G _
4~ _ S _ _ _ _ S _
5~ G _ _ G _ _ S _
6~ _ s _ _ _ _ _ *
7~ _ _ S _ _ G _ _
8~ _ _ * _ _ _ _ *
  A B C D E F G H

```

Your turn:

Turn was skipped.

```

1~ _ _ _ _ _ _
2~ _ g _ _ s _ _ *
3~ * _ _ _ * _ G _
4~ _ S _ _ _ _ S _
5~ G _ _ G _ _ S _
6~ _ s _ _ _ _ _ *
7~ _ _ S _ _ G _ _
8~ _ _ * _ _ _ _ *
  A B C D E F G H

```

My turn:

computer fired at: 4C

Position already called.

```

1~ _ _ _ _ _ _

```

2~	g	-	-	s	-	*	
3~	*	-	-	*	*	G	*
4~	S	*	*	*	-	S	*
5~	G	*	-	G	*	S	*
6~	s	*	-	*	-	*	*
7~	-	S	S	*	G	*	*
8~	-	*	*	-	-	-	*
	A	B	C	D	E	F	H

Your turn:

Please choose a fire coordinate in the range of [1A - 8H]:6A

computer's ship was hit.

Human: 6 Computer: 2

~ ~ human has won the game ~ ~

~ ~ Exit Game ~ ~