

Casey Sobecks

Hunt The Wumpus Code

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PS C:\Users\csobe\OneDrive\Documents\Butler\ (13) 2020 Spring\CS248\Assignment
4> java HuntTheWumpus
```

Welcome to Hunt the Wumpus: Sonic Edition

You are Sonic the Hedgehog (TM) and you need to fight the evil Eggman. You have three dash attacks that you can use on him, but he is protected by his robot minions and spike traps. Will you be able to defeat him and save your animal friends????

Level Start

Your current room:1 The Adjacent rooms:2 6 10
sign says EGG
You have 3 dash attacks.
There are some sparkling noises nearby
1

Do you want to move or shoot??
1 for move 0 for shoot
1

which room do you want to move to??
2
You found some rings! oh boy you feel like a whole new hedgehog.
You now have 6 dash attacks.

Your current room:2 The Adjacent rooms:1 3 7
level is dark
You have 6 dash attacks.
Some stabby noises are coming from nearby
There is a sound of an egg...could it be him?

Do you want to move or shoot??
1 for move 0 for shoot
0
Okay!
It's go time!
which room do you want to shoot into?? Choose wisely...
3

you miss your attack

Your current room:2 The Adjacent rooms:1 3 7
level is dark
You have 5 dash attacks.

Do you want to move or shoot??
1 for move 0 for shoot
0

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Okay!
It's go time!
which room do you want to shoot into?? Choose wisely...
7
It's eggman!
You strike him and end his rein of terror!

Congratulations!

You have saved your animal friends! Congrats!

credits:
1.me, I made the game
2.you, player of the game

thanks for playing!

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4>

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Hunt The Wumpus Code

```
Room.txt
10
1 2 6 10
A sign says EGG
2 1 3 7
This level is dark
3 2 4 8
The level is stinky
4 3 5 9
The level is round
5 4 6 10
The level has a little man in the corner
6 1 5 7
Yikes! you stepped in something
7 2 6 8
The eggman is not in this room
8 3 7 9
OOOOOO spooky ghost egg
9 4 8 10
There's an empty ring case here
10 1 5 9
ReeEEEEEEEEEE says the robot in the corner
```

```
1 import java.util.Scanner;
2
3 public class Room
4 {
5     //data members
6     int current;
7     int adjac1;
8     int adjac2;
9     int adjac3;
10    String message;
11    char status;
12
13    //constructor
14
15    /** @param current current room
16     * @param adjac1 first adjacent room
17     * @param adjac2 second adjacent room
18     * @param adjac3 third adjacent room
19     * @param message the message of the room
20     * @param status the status of the room if it has anything in it
21     */
22
23    public Room(Scanner roomread) //read in from a file and fill in the appropriate
data
24    {
25        current=roomread.nextInt();
26        adjac1=roomread.nextInt();
27        adjac2=roomread.nextInt();
28        adjac3=roomread.nextInt();
29        roomread.next();
30        message=roomread.nextLine();
31        status='0';
32    }
33
34    //accessor
35    public void print() //display current room info
36    {
37        System.out.println("Your current room:"+current+" The Adjacent rooms:"
38        +adjac1+" "+adjac2+" "+adjac3+"\n"+message);
39    }
40 }
```

```

1  /* CS248 Assignment 4: Hunt the Wumpus
2     Author: Casey Sobechs
3     This program is a text based game that will have the user move through room
   looking for a wumpus to kill.
4     It will implement rooms as objects and fill them with obstacles accordingly.
5  */
6
7  import java.io.*;
8  import java.util.*;
9
10 class HuntTheWumpus
11 {
12     static void Delay (int a)
13     {
14         try{Thread.sleep(a*1000);} //stop program for "a" seconds
15         catch(InterruptedException ie){Thread.currentThread().interrupt();} //return
   from sleep
16     }
17
18     public static void main(String [] args) throws IOException
19     {
20         //variables
21         int moveshoot=0;
22         int arrows=3;
23         int shotroom=0;
24         int done=0;
25         int spiderroom[]= new int [2];
26         int pitroom[]= new int[2];
27         int wumpusroom=0;
28         int arrowroom=0;
29         int prevlocal=0;
30         int game=1;
31         int location=0;
32
33         //start of program
34         Scanner input=new Scanner(System.in);
35         Scanner roomread= new Scanner(new FileReader("rooms.txt")); //read the the
   text file with room information
36         int roomtot=roomread.nextInt(); //get total room count
37
38         Room [] cave; //initialize the cave full of rooms
39         cave=new Room[roomtot];
40
41         for(int i=0; i<cave.length; i++) //fill the rooms with their respective
   values
42         {
43             cave[i]=new Room(roomread);
44         }
45
46         while(done==0) //obstacle/enemy placement
47         {
48             wumpusroom=(int)(roomtot*Math.random()); //generate random location for
   wumpus, spiders, and bottomless pit
49             arrowroom=(int)(roomtot*Math.random());
50             for(int i=0; i<2; i++)
51             {
52                 spiderroom[i]=(int)(roomtot*Math.random());
53                 pitroom[i]=(int)(roomtot*Math.random());
54             }
55         }

```

```

56         //check if any of the locations are forbidden i.e. overlap or starting
room
57
58         if(wumpusroom==0||spiderroom[0]==0||spiderroom[1]==0||pitroom[0]==0||pitroom[1]==0|
|wumpusroom==spiderroom[0]|wumpusroom==spiderroom[1]
59
60         ||wumpusroom==pitroom[0]|wumpusroom==pitroom[1]||spiderroom[0]==pitroom[0]||spider
room[0]==pitroom[1]||spiderroom[0]==spiderroom[1]
61
62         ||spiderroom[1]==pitroom[0]||spiderroom[1]==pitroom[1]||pitroom[0]==pitroom[1]||arr
owroom==wumpusroom||arrowroom==spiderroom[0]
63
64         ||arrowroom==spiderroom[1]||arrowroom==pitroom[0]||arrowroom==pitroom[1])
        {}
65         else//all locations are different and not first room
        {done=1;}
66     }
67     //set room locations with proper status message
68     cave[spiderroom[0]].status='s'; //s for spider
69     cave[spiderroom[1]].status='s';
70     cave[wumpusroom].status='w'; //w for wumps
71     cave[pitroom[0]].status='p'; //p for pit
72     cave[pitroom[1]].status='p';
73     cave[arrowroom].status='a'; //a for arrows
74
75     //Startup screen
76     System.out.println("\n\nWelcome to Hunt the Wumpus: Sonic Edition\n\n");
77     Delay(1);
78     System.out.println("You are Sonic the Hedgehod (TM) and you need to fight
the evil Eggman." +
79
80     "You have three dash attacks that you can use on him,
but he is protected by his robot minions and spike traps."
81
82     +"Will you be able to defeat him and save your animal
friends?????\n\n");
83     Delay(3);
84     System.out.println("Level Start\n");
85     Delay(1);
86     //print current status
87     cave[location].print();
88     System.out.println("You have "+ arrows+ " dash attacks.");
89
90     //check if any adjacent rooms have a status
91     if(cave[cave[prevlocal].adjac1-1].status=='s' || cave[cave[prevlocal].adjac2-
1].status=='s' || cave[cave[prevlocal].adjac3-1].status=='s')
92     {
93         System.out.println("you hear some cranky robot noises"); //spiders
nearby
94     }
95
96     if(cave[cave[prevlocal].adjac1-1].status=='a' || cave[cave[prevlocal].adjac2-
1].status=='a' || cave[cave[prevlocal].adjac3-1].status=='a')
97     {
98         System.out.println("There are some sparkling noises nearby"); //arrows
nearby
99     }
100
101     if (cave[cave[prevlocal].adjac1-1].status=='p' || cave[cave[prevlocal].adjac2-
1].status=='p' || cave[cave[prevlocal].adjac3-1].status=='p')
102     {
103         System.out.println("Some stabby noises are coming from nearby"); //pit
nearby

```

```

100     }
101
102     if(cave[cave[prevlocal].adjac1-1].status=='w' || cave[cave[prevlocal].adjac2-
103 1].status=='w' || cave[cave[prevlocal].adjac3-1].status=='w')
104     {
105         System.out.println("There is a sound of an egg...could it be him?");
106         //wumpus nearby
107     }
108     else{} //nothing nearby
109
110     System.out.println(arrowroom);
111
112     //begin game
113     while(game==1)
114     {
115         Delay(1);
116         //check for movement or shooting
117         System.out.println("\nDo you want to move or shoot??\n1 for move 0 for
118 shoot");
119         moveshoot=input.nextInt();
120
121         if(arrows==0) //out of arrows
122         {
123             if(cave[arrowroom].status!='a') //there are no more arrows left in
124             the game
125             {
126                 System.out.println("You are out of dash attacks and have
127 failed.");
128                 Delay(1);
129                 game=0;
130                 break;
131             }
132             else //you can still get some arrows from the arrow room
133             {
134                 System.out.println("You're out of dash attacks, but maybe
135 there's something that can reinvigorate you");
136                 Delay(1);
137             }
138         }
139
140         if(moveshoot==0) //shoot the arrow
141         {
142             System.out.println("Okay!\nIt's go time!");
143             Delay(1);
144             System.out.println("which room do you want to shoot into?? Choose
145 wisely...");
146
147             shotroom=input.nextInt(); //pick shooting room
148
149             if(shotroom!=cave[location].adjac1&&shotroom!=cave[location].adjac2&&shotroom!=cave
150 [location].adjac3) //shotroom not adjacent to current room
151             {
152                 System.out.println("That doesn't work. \n"); //insult
153                 Delay(1);
154                 arrows--; //subtract arrows
155
156                 cave[location].print();
157                 System.out.println("You have "+ arrows+ " dash attacks.");
158             }
159         }
160     }
161 }

```

```

152     }
153     else if(cave[shotroom-1].status=='w') //you shot the wumpus
154     {
155         Delay(1);
156         System.out.println("It's eggman! ");
157         Delay(1);
158         System.out.println("You strike him and end his rein of
terror!");
159         Delay(1);
160         System.out.println("\nCongratulations!");
161         game=0;
162     }
163     else //you shoot in a room not with wumpus
164     {
165         Delay(1);
166         System.out.println("\nyou miss your attack\n");
167         arrows--;
168         cave[location].print();
169         System.out.println("You have "+ arrows+ " dash attacks.");
170
171     }
172
173 }
174 else if(moveshoot==1) //move
175 {
176     System.out.println("\nwhich room do you want to move to??");
177     location=input.nextInt()-1;//receive new room location
178
179     if(location!=cave[prevlocal].adjac1-
1&&location!=cave[prevlocal].adjac2-1&&location!=cave[prevlocal].adjac3-1) //the
number chosen isnt an adjacent room
180     {
181         //insult
182         System.out.println("doesn't work, try again");
183     }
184     else //move to adjacent room
185     {
186         if(cave[location].status=='w') //walked into wumpus room
187         {
188             System.out.println("\neggman throws you off the stage");
189             game=0;
190         }
191         else if(cave[location].status=='s') //walked into spider room
192         {
193             System.out.println("\neggman's minions throw you off the
stage.");
194             game=0;
195         }
196         else if(cave[location].status=='p') //walk into pit room
197         {
198             System.out.println("\neggman's spikes stab you off the
stage.");
199             game=0;
200         }
201         else //move into a safe room
202         {
203             if(cave[location].status=='a') //enter an arrow room
204             {
205                 System.out.println("You found some rings! oh boy you
feel like a whole new hedgehog.");
206                 arrows=arrows+3; //increase arrow supply

```



```

207         cave[location].status='0'; //set status of room to empty
because you picked up the arrows
208         System.out.println("You now have "+ arrows+ " dash
attacks.\n");
209         Delay(2);
210     }
211
212
213     prevlocal=location;
214     cave[location].print();
215     System.out.println("You have "+ arrows+ " dash attacks.");
216
217     //spider room near by
218     if(cave[cave[prevlocal].adjac1-
1].status=='s' || cave[cave[prevlocal].adjac2-
1].status=='s' || cave[cave[prevlocal].adjac3-1].status=='s')
219     {
220         System.out.println("you hear some cranky robot noises");
221     }
222     //pit room nearby
223     if (cave[cave[prevlocal].adjac1-
1].status=='p' || cave[cave[prevlocal].adjac2-
1].status=='p' || cave[cave[prevlocal].adjac3-1].status=='p')
224     {
225         System.out.println("Some stabby noises are coming from
nearby");
226     }
227     //wumpus room nearby
228     if(cave[cave[prevlocal].adjac1-
1].status=='w' || cave[cave[prevlocal].adjac2-
1].status=='w' || cave[cave[prevlocal].adjac3-1].status=='w')
229     {
230         System.out.println("There is a sound of an egg...could
it be him?");
231     }
232     //arrow room nearby
233     if(cave[cave[prevlocal].adjac1-
1].status=='a' || cave[cave[prevlocal].adjac2-
1].status=='a' || cave[cave[prevlocal].adjac3-1].status=='a')
234     {
235         System.out.println("There are some sparkling noises
nearby"); //arrows nearby
236     }
237     else //nothing nearby
238     {}
239     }
240 }
241
242 }
243 else //you enter a number that's not 0 or 1 to move or shoot
244 {
245     System.out.println("that's not an option, stick to the rules");
246 }
247 }
248
249 //endgame sequence
250 input.close(); //close input so java stops yelling at me
251 Delay(3);
252 System.out.println("\nYou have saved your animal friends! Congrats!");
253 Delay(2);

```

```
254         System.out.println("\ncredits:\n1.me, I made the game\n2.you, player of the  
game\n");  
255         Delay(2);  
256         System.out.println("\nthanks for playing!\n");  
257         Delay(1);  
258     }  
259 }
```