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import java.util.Scanner;
import java.io.*;
//Melisa Andreea Bogdan
//This program is about exploring the booby-trapped castle Game

class Traps
{
    int roomNumber;
    String findObject;
    String trapObject;
}

class Castle
{
    int rooms;
    boolean explored; // true if the room was explored in a castle, false
    otherwise
    Traps t5;
}

class miniproject
{
    public static void main (String[] p) throws IOException
    {
        try {
            BufferedReader inStream = new BufferedReader(new
            FileReader("in.txt")); // reads input from the file in.txt
            PrintWriter outStream = new PrintWriter(new
            FileWriter("output.txt")); // prints in the file out.txt
            //String line = inStream.readLine();
            // inStream.println("oof");
            Traps[] t = new Traps[5];
            for(int i = 0; i<4; i++){
                int x = Integer.parseInt(inStream.readLine());
                String item = inStream.readLine();
                String second = inStream.readLine();
                t[i] = generateTraps(x, item, second); // generating traps from the
input file
            }
            inStream.close();
            Traps t1 = t[0];
            Traps t2 = t[1];
            Traps t3 = t[2];
            Traps t4 = t[3];
            Traps t5 = t[4];
            Castle room5 = generateCastle(5, false);

            print("How many players are going to play?");
            int numberOfPlayers= inputInt(); // gets the number
of players
            int [] players = new int [numberOfPlayers]; // initializing the array
            for( int i=0;i< numberOfPlayers; i++) // playing the turn
of each player and adding their score in the array
            {
                int j=i+1;
                print("***** Player " + j + " *****");
                players[i] = ask(t1,t2,t3,t4,t5, room5);
                save(players[i]);
                //outStream.println("Player " + j + " score is: "+players[i]);
                if( i!= numberOfPlayers-1){

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        print("Now is next player's turn:");
        updateRoom5(room5, false); }
    }
    int [] copyPlayers= new int [numberOfPlayers]; // making a copy of
the initial array for safe keeping
    for( int i=0; i<copyPlayers.length; i++)
        copyPlayers[i]= players[i]; // copying each
element in the new array

    sort(players);
    printTable(copyPlayers, players); // sorting the score table based on
the biggest points

    outputStream.close();
} catch (IOException e) {
    print("Error");
}

    System.exit(0);
}

    public static int ask(Traps t1, Traps t2, Traps t3, Traps t4, Traps t5,
Castle room5) // setting and returning the score to 0 for every new player
    {
        int score=0;
        int theScore= Adventure(score, t1, t2, t3, t4, t5, room5);
        return theScore;
    }

    public static void save(int score) throws IOException
    {
        PrintWriter outputStream = new PrintWriter (new
FileWriter("output.txt"));
        String scoreString = Integer.toString(score);
        outputStream.write(scoreString);
        outputStream.close();
    }

    public static int load() throws IOException // loads information ( the
score ) from the outputfile
    {
        BufferedReader inStream = new BufferedReader(new
FileReader("output.txt")); // reads input from the file in.txt
        int x = Integer.parseInt(inStream.readLine());
        inStream.close();
        return x;
    }

    public static int Adventure (int score, Traps t1, Traps t2, Traps t3,
Traps t4, Traps t5, Castle room5)
    {

        String printstring;
        String answer;
        int [] rooms = new int [6];
        print("You are currently in an abandoned castle from the XV
century.");
        print("You have to make multiple choices throughout the
exploration.");
        answer= inputString("Do you want to explore the castle?");
        print("");
    }

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print("You have no choice but to follow the trail.");
print("");
printstring = ("Your current score is: " + score + " points.");
String answer1= inputString(" Do you want to go left or right?");
print(printstring);
//////////////////////////////////// FIRST
CHOICE

    print("You see a golden, a green, blue, white and black door. You can
    see written all over them 'DO NOT ENTER' in red paint.");
    print("These doors corresponds to rooms 1, 2, 3, 4, 5. You have the
    choice to enter one room.");
    int ans= inputInt();
    int ct=0;
    while( ans!=0 )
    {

        if ( ans == getRoomNumber(t1))
        {
            rooms[1]=1;
            score= score + Room1(score, t1);
            ans= CheckForNewRoom(rooms, ct, room5);
            ct+=1;

        } else if ( ans == getRoomNumber(t2))
        {
            rooms[2]=1;
            score= score + Room2(score, t2);
            ans= CheckForNewRoom(rooms, ct, room5);
            ct+=1;

        } else if ( ans == getRoomNumber(t3))
        {
            rooms[3]=1;
            score= score + Room3(score, t3);
            ans= CheckForNewRoom(rooms, ct, room5);
            ct+=1;

        } else if ( ans == getRoomNumber(t4))
        {
            rooms[4]=1;
            score= score + Room4(score, t4);
            ans= CheckForNewRoom(rooms, ct, room5);
            ct+=1;

        } else if (ans == getRoomnumber(room5))
        {
            rooms[5]=1;
            //System.out.println(ct);
            score= score + Room5(score, room5, t5);
            ans= CheckForNewRoom(rooms, ct, room5);
            ct+=1;

        } else
        {
            print("You entered a non-existing room number. Check your
            spelling.");
            print(printstring);
            ans= CheckForNewRoom(rooms, ct, room5);

        }

    }

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    }
    print("GAME OVER");
    print("Your final score is: "+ score);
    return score;
}

    public static Traps generateTraps (int roomNumber, String findObject,
String trapObject) // The method is the frame/body of a station
    {
        Traps t = new Traps();
        t.roomNumber = roomNumber;
        t.findObject = findObject;
        t.trapObject = trapObject;
        return t;
    }

    public static Castle generateCastle (int rooms, boolean explored) //
The method is the frame/body of a castle
    {
        Castle c = new Castle();
        c.rooms = rooms;
        c.explored=explored;
        return c;
    }

    public static int getRoomnumber (Castle room5) // method for getting
the name of the room of time Castle
    {
        return room5.rooms;
    }

    public static int Room1 (int score, Traps t1) // Method used in case
the user enters room 100
    {
        print("Your score is : " + score);
        print("You entered Sultan's Chamber.");
        print("HINT: Look for misterious objects to find the next clue.");
        boolean exit=true;
        int intermediateScore=0;
        while( exit ) // exits the while loop when the player has enough
points
        {
            int ct=0;
            while ( ct==0) // repeats code while the user has enough points
            {
                String answer= inputString("You can check for clues: A. in
a dark corner of a room, B. under a goldem table. Type in the letter of
your choice: ");
                intermediateScore=0;
                if (answer.equals("A") )
                {
                    print("You get closer to the left corner. It takes
you seconds to adjust to the dim light then you start looking around.");
                    print("You see many fancy porcelain dolls and gold
statues on small tables near a bed. You start looking for clues.");
                    answer= inputString("You see something out of
ordinary under a cloth. Do you want to take a look?");
                    answer = answer.toLowerCase();
                    if( answer.equals("yes") )
                    {
                        intermediateScore=intermediateScore+ 10;
                        print("Nothing to see here.");
                    }
                }
            }
        }
    }

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        print("Your score in this room is: "+
intermediateScore);

        } else
        {
            print("Keep looking.");
        }
        answer= inputString("You see something under one of
the dolls. Do you want to take a look?");
        answer = answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore+=5;
            print(" You found an encrypted message. ");
        } else
        {
            print("Keep looking.");
        }
        print("You can feel the floor is trembling
underneath you.You activated the " + getTraps(t1) +
        " trap. Pieces of the floor are falling down into a
big hole but you see a rope hanging from ceiling with a "
        + getObject(t1) + " attached to it and you try
reaching out for it.");
        if( intermediateScore >= 5 ) // Save the user based
on points
        {
            print("You succesfully save yourself from
falling. Well done.BONUS: You got the key!");
            intermediateScore+=5;
        } else
        {
            print("Phew! That was close! You failed to
catch the rope in time and saved yourself in the last second.");
        }
        //System.out.println("Your score in points is " +
intermediateScore);
        if( intermediateScore < 15 )
        {
            print("Oh no!You don't have enough points to
leave the room. ");
        } else
        {
            ct=1;
            exit=false;
        }
    } else if (answer.equals("B"))
    {
        intermediateScore = 0;
        // If the user's input is B then we execute the
following blocks:
        print("You get closer to the right corner. It
takes you seconds to adjust to the bright light then you start looking
around.");

        print("You see a dusty golden table with many
antique objects on it. You start looking for clues.");
        answer= inputString("You see something that
appeared shiny in the sunlight. Do you want to take a look?");
        answer = answer.toLowerCase();
        if( answer.equals("yes") )
        {

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        intermediateScore+=10;
        print("You found a key that seem to match one
of the many boxes on the table.");
    } else
    {
        print("Keep looking.");
    }
    answer= inputString("You see something under one
of the golden boxes. Do you want to take a look?");
    answer = answer.toLowerCase();
    if( answer.equals("yes") )
    {
        intermediateScore+=5;
        print("There is a message written on a piece of
paper: USE THE KEY TO UNLOCK THE BOX OF THE UNKNOWN.");

    } else
    {
        print("Keep looking.");
    }
    print("You can feel the floor is trembling
underneath you.You activated the " + getTraps(t1) +
" trap. Pieces of the floor are falling down into
a big hole but you see a rope hanging from ceiling"+
" and you try reaching out for it.");

    if( intermediateScore >= 5 ) // Save the user
    {
        print("You succesfully save yourself from
falling. Well done.");
        intermediateScore+=5;
    } else
    {
        print("Phew! That was close! You failed to
catch the rope in time and saved yourself in the last second. BONUS: You
got the key!");
    }

    if( intermediateScore <= 15 )
    {
        print("Oh no!You don't have enough points to
leave the room. Try again or choose another letter.");
    } else
    {
        ct=1;
        exit=false;
    }
} else
{
    intermediateScore=0;
    print("You entered none of the letters above. Check
your spelling."); // we execute this if the user entered a wrong letter
}

//score= intermediateScore;
} int s= score + intermediateScore;
System.out.println("Your current score in this room is: " + s);

}
return intermediateScore;

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    }

    public static int Room2 (int score , Traps t2) // method for entering
room2
    {
        int intermediateScore=0;
        print("Your score is: " + score);
        print("You entered The Amazonian Jungle.");
        print("HINT: Look for misterious objects to find the next clue.");
        String answer= inputString("Do you want to look left or right?");
        answer = answer.toLowerCase(); // converting the answer to lower case
        boolean exit = true;
        while(exit)
        {
            intermediateScore=0;
            if (answer.equals("left"))
            {
                intermediateScore+=5;
                answer = inputString("You see a silver chest. Do you want to
look at it?");
                answer = answer.toLowerCase();
                if( answer.equals("yes"))
                {
                    intermediateScore+=5;
                    print("You remember you got the key from a previous room and
you try to open the chest with it.");
                    print("IT WORKS!");
                    intermediateScore+=5;
                } else
                if(answer.equals("no"))
                {
                    print("Keep looking.");
                    intermediateScore+=5;
                }
                answer=inputString("OOPS. You unlocked the "+
getTraps(t2)+"trap. What do you do?"+
                "Your choices: A. fight the scorpions, B. Distract them then
Run to the door.");
                answer=answer.toUpperCase();
                if(answer.equals("A"))
                {
                    print("Oh oh. Wrong choice. TRY AGAIN");
                    Room2(score,t2);
                } else if( answer.equals("B"))
                {
                    if(intermediateScore>=10){
                        print("You managed to escape & you succesfully left the
room.");;}
                    else
                    {
                        print("The scorpions chased you but you managed to escape
after all. ");
                        intermediateScore-=5;
                    }
                }

            } else if (answer.equals("right"))
            {
                intermediateScore+=5;
            }
        }
    }

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        print("You remember you got the key from a previous room and
you try to open the chest with it.");
        print("IT WORKS!");
        intermediateScore+=5;
        answer=inputString("OOPS. You unlocked the "+
getTraps(t2)+"trap. What do you do?"+
        "Your choices: A. fight the scorpions, B. Distract them then
Run to the door.");
        answer=answer.toUpperCase();
        if(answer.equals("A"))
        {
            print("Oh oh. Wrong choice. TRY AGAIN");
            Room2(score,t2);
        } else if( answer.equals("B"))
        {
            if(intermediateScore>=10){
                print("You managed to escape & you succesfully left the
room.");;}
            else
            {
                print("The scorpions chased you but you managed to escape
after all. ");
                intermediateScore-=5;
            }
        } else
        {
            print("You entered a non valid option. Please enter A or
B.");
        }

        if(intermediateScore>=10)
        {
            exit=false;
        } else print("Oh oh! You don't have enough points to leave!");
    }
    int s= score + intermediateScore;
    print("Your score in this room is: "+ s);
    return intermediateScore;
}

public static int Room3 (int score, Traps t3)
{
    int intermediateScore=0;
    print("Your score is: " + score);
    print("You entered The Underwater Realm of Mermaids.");
    print("HINT: Look for misterious objects to find the next clue.");
    boolean exit=true;
    while( exit ) // exits the while loop when the player has enough
points
    {
        int ct=0;
        while ( ct==0) // repeats code while the user has enough points
        {
            String answer= inputString("You can check for clues: A.
under a pile of rocks, B. under a mermaid bridge. Type in the letter of
your choice: ");
            intermediateScore=0;
            answer = answer.toUpperCase();
            if (answer.equals("A") )
            {

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        print("You get closer to the left rocks. It takes you
seconds to adjust your eyes in the water then you start looking around.");
        print("You start looking for clues.");
        answer= inputString("You see something white and
shiny between rocks. Do you want to take a look?");
        answer = answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore=intermediateScore+ 10;
            print("You found a magical "+ getObject(t3)
+"!");

            print("Your score is: "+ intermediateScore);

        } else
        {
            print("Keep looking.");
        }
        answer= inputString("You see something far in the
distance . Do you want to take a look?");
        answer= answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore+=5;
            print(" You found an encrypted message. ");
        } else if ( answer.equals("no"))
        {
            print("Keep looking.");
        } else print("Wrong answer, input the write
letter.");

        print("You can feel the sand moving underneath
you.You activated the " + getTraps(t3) +
" trap.You can save yourself based on your previous
actions.");

        if( intermediateScore >= 5 ) // Save the user based
on points
        {
            print("You succesfully save yourself from being
hit by arrows. Well done.");
            intermediateScore+=5;
        } else
        {
            print("Phew! That was close! You got hit by one
arrow but it wasn't poisonous! You are still alive.");
        }
        if( intermediateScore < 15 )
        {
            print("Oh no!You don't have enough points to
leave the room. ");
        } else
        {
            ct=1;
            exit=false;
        }
    } else if (answer.equals("B"))
    {
        intermediateScore = 0;
        // If the user's input is B then we execute the
following blocks:

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        print("You get closer to the bridge. You start
looking around.");
        print("You start looking for clues.");
        answer= inputString("You see something that
appeared shiny in the sunlight. Do you want to take a look?");
        answer= answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore+=10;
            print("You found a magical "+ getObject(t3)+"
!");
        } else
        {
            print("Keep looking.");
        }
        answer= inputString("You see something under one
of the golden boxes. Do you want to take a look?");
        answer= answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore+=5;
            print("There is a message written on a piece of
paper: USE THE KEY TO UNLOCK THE BOX OF THE UNKNOWN.");
        } else
        {
            print("Keep looking.");
        }
        print("You can feel the sand moving underneath
you.You activated the " + getTraps(t3) +
" trap.You can save yourself based on your previous
actions.");

        if( intermediateScore >= 5 ) // Save the user
        {
            print("You succesfully saved yourself from
being hit. Well done.");
            intermediateScore+=5;
        } else
        {
            print("Phew! That was close! You failed to
protect yourself. One arrow hit you but it was not poisonous. You'll
survive.");
        }

        if( intermediateScore <= 15 )
        {
            print("Oh no!You don't have enough points to
leave the room. Try again or choose another letter.");
        } else
        {
            ct=1;
            exit=false;
        }
    } else
    {
        intermediateScore=0;
        print("You entered none of the letters above. Check
your spelling."); // we execute this if the user entered a wrong letter
    }
}

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    }
    int s = score + intermediateScore;
    System.out.println("Your current score in this room is: " + s);
}
return intermediateScore;
}

public static int Room4 (int score, Traps t4)
{
    int intermediateScore=0;
    print("Your score is: " + score);
    print("You entered Heaven On Earth.");
    print("HINT: Look for misterious objects to find the next clue.");
    boolean exit=true;
    while( exit ) // exits the while loop when the player has enough
points
    {
        int ct=0;
        while ( ct==0) // repeats code while the user has enough points
        {   String answer= inputString("You can check for clues: A.
near a tree with golden apples, B. near waterfall. Type in the letter of
your choice: ");
            intermediateScore=0;
            answer = answer.toUpperCase();

            if (answer.equals("A") )
            {
                int rightAnswer=0;
                print("You get closer to the tree. It takes you
seconds to realise that you are in the actual heaven.");
                print("You start looking for clues.");

                while(rightAnswer==0)
                {
                    answer= inputString("You see something behind the
tree. Do you want to take a look?");
                    answer = answer.toLowerCase();
                    if( answer.equals("yes") )
                    {
                        rightAnswer=1;
                        intermediateScore=intermediateScore+ 10;
                        print("You found an "+ getObject(t4) + "!");
                        print("Your score is: "+ intermediateScore);

                    } else if ( answer.equals("no") )
                    {
                        rightAnswer=1;
                        print("Keep looking.");
                    } else print("Wrong answer, input yes or no.");
                }

                rightAnswer=0;
                while(rightAnswer==0)
                {
                    answer= inputString("You see something far in the
distance . Do you want to take a look?");
                    answer= answer.toLowerCase();
                    if( answer.equals("yes") )

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        {
            rightAnswer=1;
            intermediateScore+=5;
            print(" You found another "+ getObject(t4));
        } else if ( answer.equals("no"))
        {
            rightAnswer=1;
            print("Keep looking.");
        } else print("Wrong answer, input yes or no.");
    }
    print("You can feel the clouds moving underneath
you.You activated the " + getTraps(t4) +
" trap.You can save yourself based on your previous
actions.");

    if( intermediateScore >= 5 ) // Save the user based
on points
    {
        print("You succesfully save yourself from
ghosts. Well done.");
        intermediateScore+=5;
    } else
    {
        print("Phew! That was close! You got hit by one
ghost but it didn't get possessed! You are still alive.");
    }
    if( intermediateScore < 15 )
    {
        print("Oh no!You don't have enough points to
leave the room. ");
    } else
    {
        ct=1;
        exit=false;
    }
} else if (answer.equals("B"))
{
    intermediateScore = 0;
    // If the user's input is B then we execute the
following blocks:
    print("You get closer to the tree. It takes you
seconds to realise that you are in the actual heaven.");
    print("You start looking for clues.");
    answer= inputString("You see something after the
waterfall but you have to get through it to get there. Do you still want to
take a look?");

    answer= answer.toLowerCase();
    if( answer.equals("yes") )
    {
        intermediateScore+=10;
        print("You found an "+ getObject(t4)+" !");
    } else
    {
        print("Keep looking.");
    }
    answer= inputString("You see something under a
slippery rock. Do you want to take a look?");
    answer= answer.toLowerCase();
    if( answer.equals("yes") )
    {
        intermediateScore+=5;
    }
}

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        print("You found another "+ getObject(t4));
    } else
    {
        print("Keep looking.");
    }
    print("You can feel the clouds moving
underneath you.You activated the " + getTraps(t4) +
        " trap.You can save yourself based on your previous
actions.");

    if( intermediateScore >= 5 ) // Save the user
based on points
    {
        print("You succesfully saved yourself from
being hit. Well done.");
        intermediateScore+=5;
    } else
    {
        print("Phew! That was close! You failed to
protect yourself but you'll survive");

        if( intermediateScore <= 15 )
        {
            print("Oh no!You don't have enough points to
leave the room. Try again or choose another letter.");
        } else
        {
            ct=1;
            exit=false;
        }
    }

    }

    int s= score+ intermediateScore;
    System.out.println("Your current score in this room is: " + s);

    }

    return intermediateScore;
}

public static int Room5 (int score, Castle room5, Traps t5)
{
    int intermediateScore=0;
    print("Your score is: "+ score);
    print("You entered Hell On Earth.");
    print("HINT: Look for misterious objects to find the next clue.");
    boolean exit=true;
    while( exit ) // exits the while loop when the player has enough
points
    {
        int ct=0;
        while ( ct==0) // repeats code while the user has enough points
        {
            String answer= inputString("You can check for clues: A.
under a pile of rocks, B. under a mermaid bridge. Type in the letter of
your choice: ");
            intermediateScore=0;
            answer = answer.toUpperCase();
            if (answer.equals("A") )
            {

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        print("You get closer to the left rocks. It takes you
seconds to adjust your eyes in the water then you start looking around.");
        print("You start looking for clues.");
        answer= inputString("You see something white and
shiny between rocks. Do you want to take a look?");
        answer = answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore=intermediateScore+ 10;
            print("You found a magical "+
getObject(t5)+"!");
            print("Your score is: "+ intermediateScore);

        } else
        {
            print("Keep looking.");
        }
        answer= inputString("You see something far in the
distance . Do you want to take a look?");
        answer= answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore+=5;
            print(" You found an encrypted message. ");
        } else if ( answer.equals("no"))
        {
            print("Keep looking.");
        } else print("Wrong answer, input the write
letter.");

        print("You can feel the sand moving underneath
you.You activated the " + getTraps(t5) +
" trap.You can save yourself based on your previous
actions.");

        if( intermediateScore >= 5 ) // Save the user based
on points
        {
            print("You succesfully save yourself from being
hit by arrows. Well done.");
            intermediateScore+=5;
        } else
        {
            print("Phew! That was close! You got hit by one
arrow but it wasn't poisonous! You are still alive.");
        }
        if( intermediateScore < 15 )
        {
            print("Oh no!You don't have enough points to
leave the room. ");
        } else
        {
            ct=1;
            exit=false;
        }
    } else if (answer.equals("B"))
    {
        intermediateScore = 0;
        // If the user's input is B then we execute the
following blocks:

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        print("You get closer to the bridge. You start
looking around.");
        print("You start looking for clues.");
        answer= inputString("You see something that
appeared shiny in the sunlight. Do you want to take a look?");
        answer= answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore+=10;
            print("You found a magical "+ getObject(t5)+"
!");
        } else
        {
            print("Keep looking.");
        }
        answer= inputString("You see something under one
of the golden boxes. Do you want to take a look?");
        answer= answer.toLowerCase();
        if( answer.equals("yes") )
        {
            intermediateScore+=5;
            print("There is a message written on a piece of
paper: USE THE KEY TO UNLOCK THE BOX OF THE UNKNOWN.");
        } else
        {
            print("Keep looking.");
        }
        print("You can feel the sand moving underneath
you.You activated the " + getTraps(t5) +
" trap.You can save yourself based on your previous
actions.");

        if( intermediateScore >= 5 ) // Save the user
        {
            print("You succesfully saved yourself from
being hit. Well done.");
            intermediateScore+=5;
        } else
        {
            print("Phew! That was close! You failed to
protect yourself. One arrow hit you but it was not poisonous. You'll
survive.");
        }

        if( intermediateScore <= 15 )
        {
            print("Oh no!You don't have enough points to
leave the room. Try again or choose another letter.");
        } else
        {
            ct=1;
            exit=false;
        }
    } else
    {
        intermediateScore=0;
        print("You entered none of the letters above. Check
your spelling."); // we execute this if the user entered a wrong letter
    }
}

```

```

        }
        int s= score + intermediateScore;
        System.out.println("Your current score in this room is: "+ s);

    }
    return intermediateScore;
}

public static void updateRoom5 (Castle room5, boolean x) // changed
from false to true in main each time a new player enters
{
    room5.explored = x;
}
public static boolean getExplored( Castle room5)
{
    return room5.explored;
}
public static int CheckForNewRoom (int [] rooms, int ct, Castle room5 )
// The method checks each cell (room) whether it is already used (holds the
value 1) or not( value 0) and returns the room the user picked
{
    System.out.println("CT: " + ct);
    String message= ("The available rooms are: ");
    int i;
    boolean g= getExplored(room5); // g= false because the room is not
checked yet
    for(i=1;i<6;i++)
    {
        if (i==5) // checking room 5
        {
            if( g = true){ // if room5 is unexplored
                message= (message + i + ", ");
            } else
            if(rooms[i]==0)
            {
                message= (message + i + ", ");
            }
        }
    }
    if(ct!=3) // when there are other rooms left
    {
        message=(message + " Pick one of them:");
        print(message);
        return inputInt();
    } else return 0; // it returns 0 once all rooms were explored
}

public static void sort(int [] players ) // a method that contains a
sorting algorithm for each player score
{
    int i, j;
    for( i=0;i <players.length;i++)
    {
        for ( j=i; j <players.length; j++) // starts from the next position
        {
            if (players[i] < players[j])
                swap (players, i, j);
        }
    }
}

```



```

    public static void swap (int [] players, int x, int y ) // method for
    swapping the values of 2 array cells
    {
        int copy = players[y];
        players[y] = players[x];
        players[x] = copy;
    }

    public static void printTable (int [] copyPlayers, int [] players)
    // Prints the final table with final scores
    {
        print("The scores are:");
        for(int i=0;i<players.length;i++) // going through the array's cells
        {
            int currentPoints= players[i];          // saving
            for(int j=0;j<copyPlayers.length;j++)    // going through the copy's
            cells
            {
                if (copyPlayers[j]== currentPoints )
                {
                    copyPlayers[j]=0;
                    int copyPosition = j+1;
                    print("Player " + copyPosition + " got: " + currentPoints+ "
points.");
                    break;
                }
            }
        }
    }

    public static int getRoomNumber (Traps x) // Accessor method that gets
    the object which triggers the trap
    {
        return x.roomNumber;
    }

    public static String getObject (Traps x) // Accessor method that gets
    the object which triggers the trap
    {
        return x.findObject;
    }

    public static String getTraps (Traps x)// Accessor method that gets the
    name of the trap
    {
        return x.trapObject;
    }

    public static String inputString (String s) //Method for getting a
    string from user
    {
        System.out.println(s);

        return new Scanner(System.in).nextLine();
    }

    public static int inputInt() // Method for getting an integer from
    user
    {
        return new Scanner(System.in).nextInt();
    }

```

```
}  
  
    public static void print( String s) // method for printing a message  
    {  
        System.out.println(s);  
    }  
  
}
```