

Project 1

<FUN with Math>

CSC_5_40717
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Dare: 02/02/15

INTRODUCTION:

Title: Fun with Math

Two number are shown and the user have to input the answer.

There is a limit of four time to fail on getting the right answer.

If the user fails a little drawing will show indicating that the answer it's wrong. After the fourth failure a final drawing will show indicating the game it's over.

The game consists of three level of basic math problems. In the first level the user will have to add two numbers and enter the answer, if corrects it would move to the next level. The second level consists of multiplying two numbers and then the user would have to enter the answer if correct the user would advance to the last level. At last the user would have to divide two number and enter the answer.

The total number of failures would decrease in each level. In level one the user would have four lives, and in second level the user would have three and in the last level the user would only have two lives.

SUMMARY

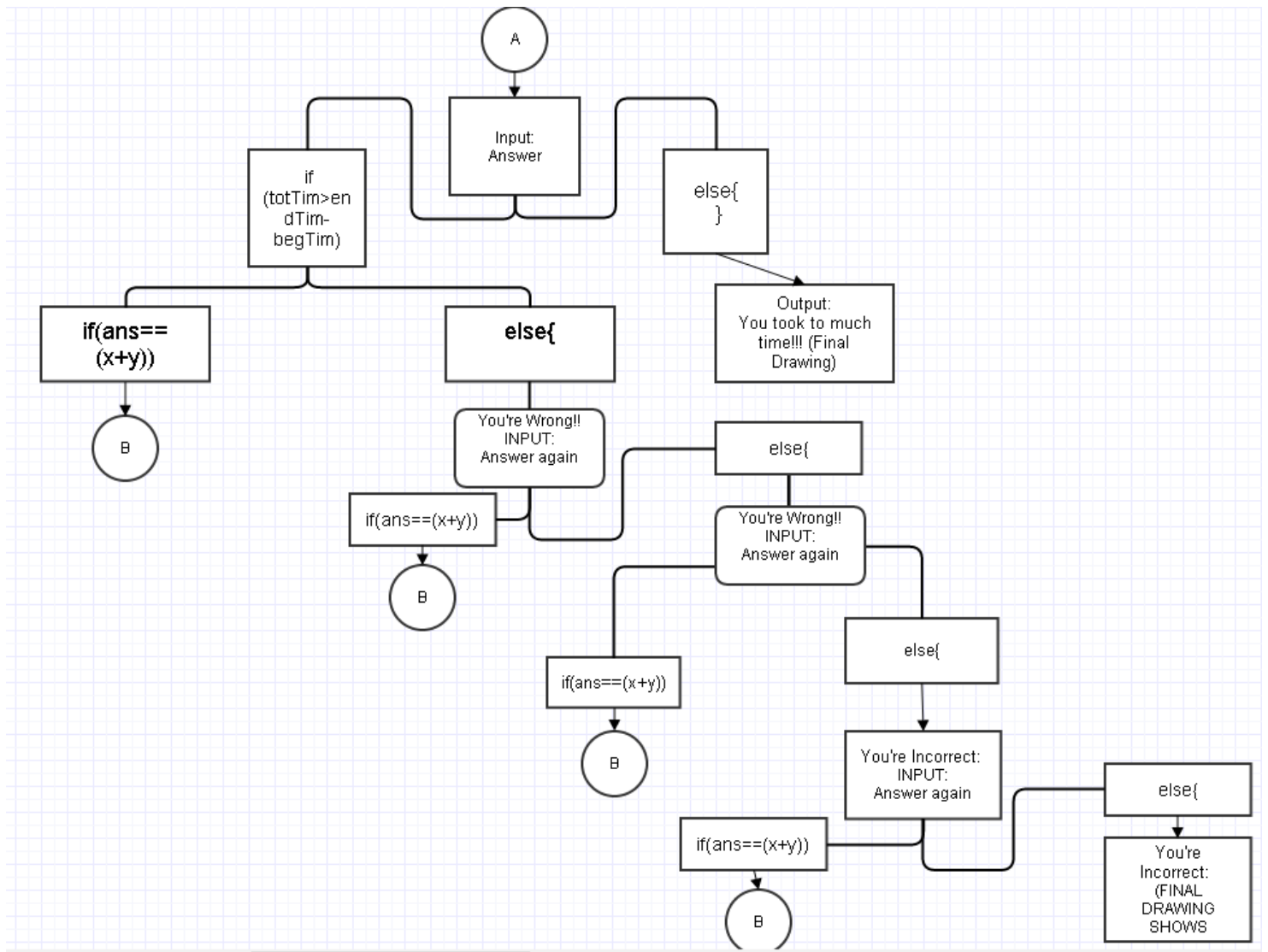
Fun with math it's a game where you can prove your basic skills in math. Fun with Math it's composed of only three levels and to make it better it have a limit of times of failure. During the time you're playing the game, you will advance to next level and if you get the incorrect answer a little drawing will show and after the fourth failure you lose and the final drawing will show which indicates that you have lose.

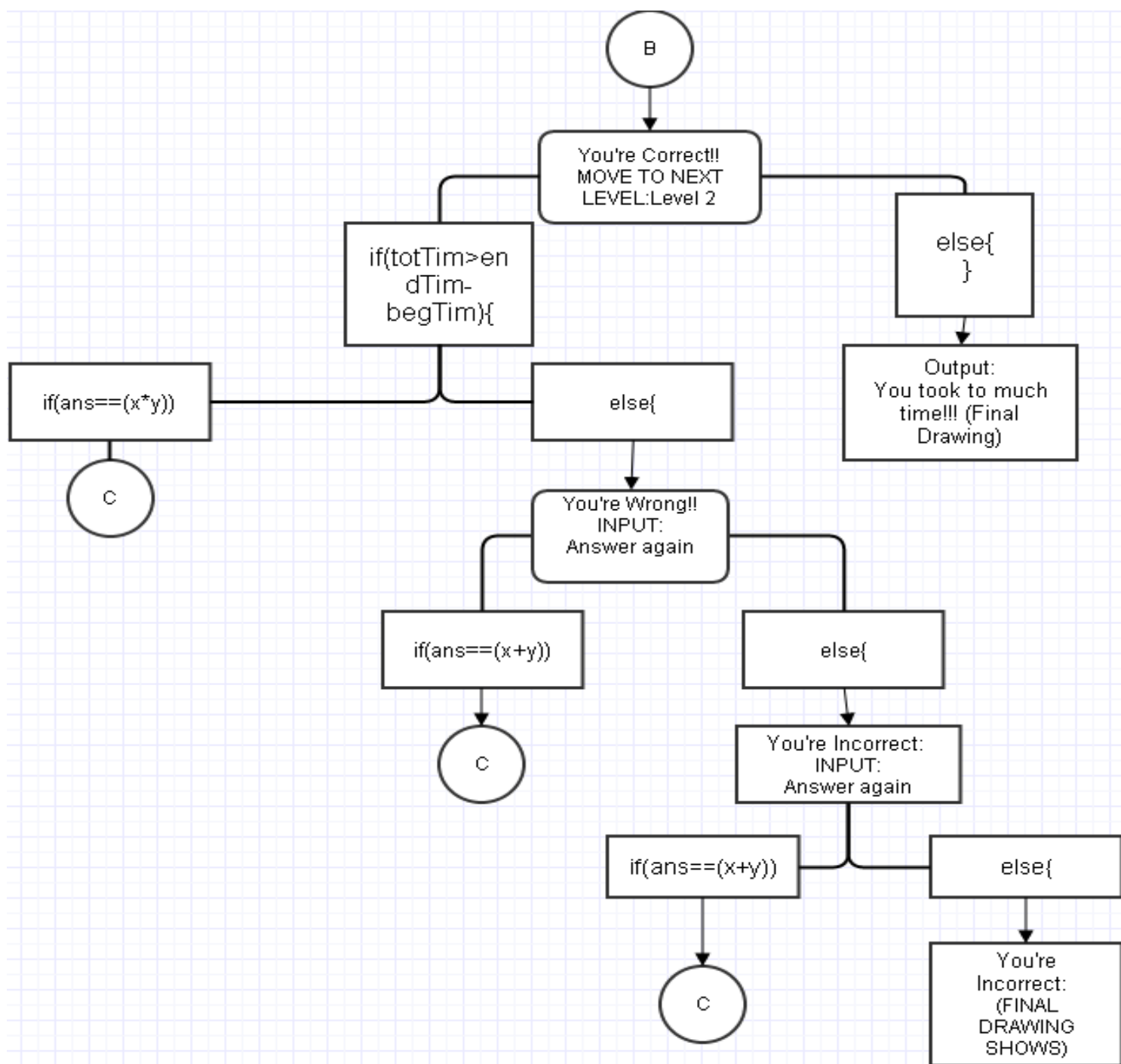
Fun with math it's a basic skills math game where not major math skills will be necessary but it can be a great warm up game to refresh your brain.

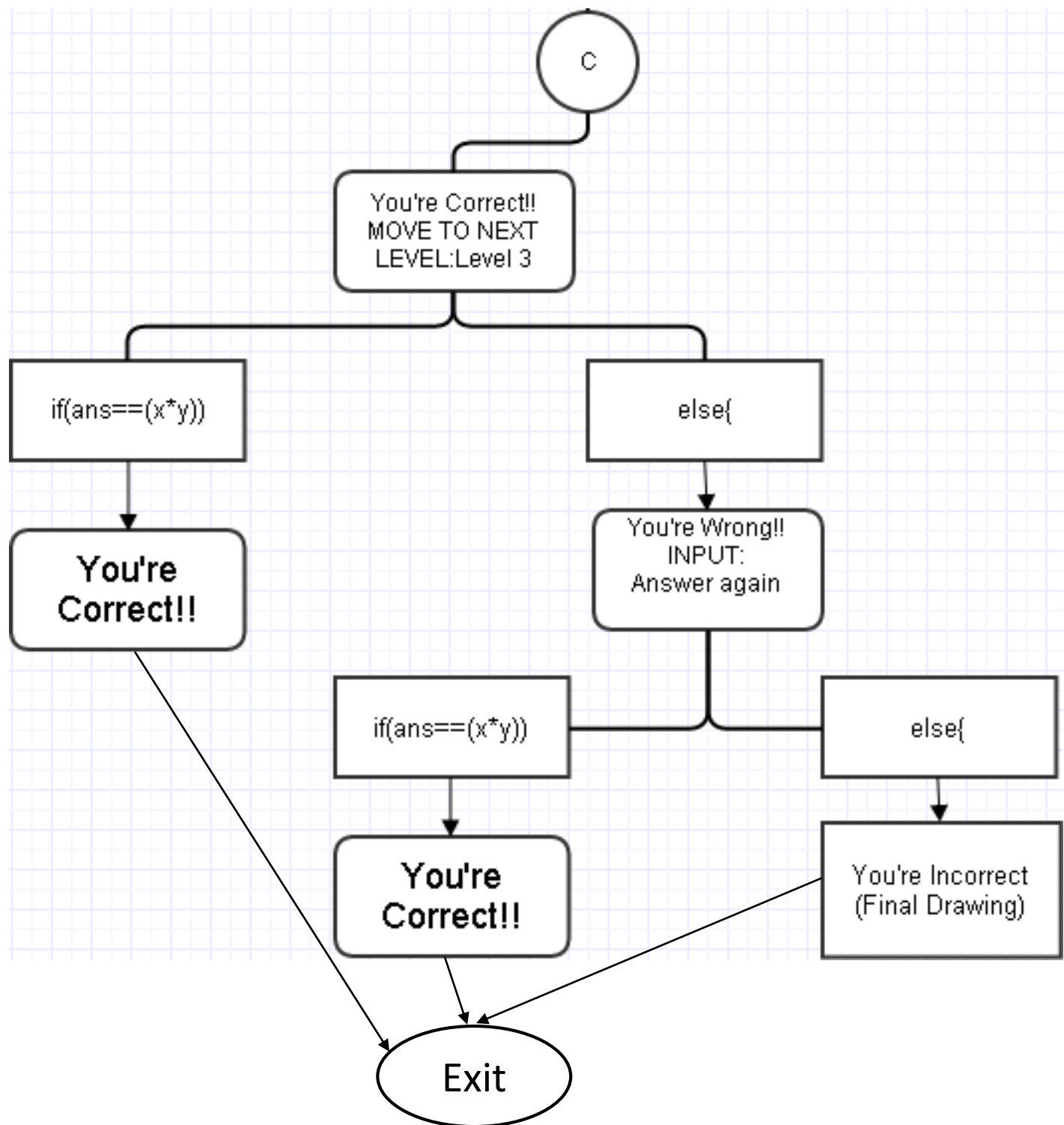
Description:

This project includes most of the concepts we have learn in class from the chapters we have covered. This project have strong possibilities to be extended for next project. The project can be improved by adding more complex equations. More levels using less space and different loops would also be a way to improve the game for next project.

It took me from 15-20 hours to make it, if more time could have been use to build it would have given a better results. I tried to add as many knowledge as possible. The game it's very simple but it can be improved to be better and wroth to play and learn.







```
/*  
* File:  main.cpp  
* Author: Oscar Mayorga  
* Created on January 1528, 2015, 11:15 PM  
* Purpose: Prove your adding and multiplying skills  
*/
```

```
//System Libraries  
#include <iostream>  
#include <ctime>  
#include <cstdlib>  
using namespace std;
```

```
//User Libraries
```

```
//Global Constants
```

```
//Function Prototypes
```

```
//Execution Begins Here!
```

```
int main(int argc, char** argv) {  
    //Initialize the random number seed  
    srand(static_cast<unsigned int>(time(0)));  
    //Declare 2 variables  
    unsigned int x,y,begTim,endTim,ans,totTim;  
    //Randomly choose 2 digits for each  
    x=rand()%90+10;
```

```

y=rand()%90+10;
totTim=15;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
cout<<"What is "<<x<<" + "<<y<<endl;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 4 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 5 extra second for the reading!"<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(x+y)){cout<<"Youu are Correct"<<endl;
        // LEVEL 2
//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));
//Declare 2 variables
unsigned int x,y,begTim,endTim,ans,totTim;
//Randomly choose 2 digits for each
x=rand()%9+2;
y=rand()%10+10;
totTim=13;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
cout<<"What is "<<x<<" * "<<y<<endl;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;

```

```

cout<<"next level & if time its up you lose. 3 extra second for the reading!"<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(x*y)){cout<<"You are Correct"<<endl;
        // LEVEL 3
//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));
//Declare 2 variables
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;
//Randomly choose 2 digits for each
v=rand()%90+10;
x=rand()%90+10;
y=rand()%10+2;
z=rand()%10+2;
totTim=15;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
ans1=v+x;
ans2=y*z;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
cout<<"What is "<<v<<" + "<<x<<endl;
cin>>ans1;
cout<<"What is "<<y<<" * "<<z<<endl;

```



```
cin>>ans2;

cout<<"What is "<<ans1<<" - "<<ans2<<endl;

cin>>ans;

endTime=static_cast<unsigned int>(time(0));

//Determine if correct

if(totTim>endTime-begTim){

    if(ans==(ans1-ans1)){cout<<"You are Correct"<<endl;


    }

    else{ cout<<"You are wrong"<<endl;

        cout<<"      |=====||"<<endl;

        cout<<"      |          ||"<<endl;

        cout<<"      ,",          ||"<<endl;

        cout<<"      ',,'          ||"<<endl;

        cout<<"              ||"<<endl;

        cout<<"              ||"<<endl;

        cout<<"              ||"<<endl;

        cout<<"              ||"<<endl;

        cout<<"              ||"<<endl;

        cout<<" _____||"<<endl;

        cin>>ans;

        if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;


        return 0;

    }
```

```

else{ cout<<"You are wrong"<<endl;

cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"  |||      ||"<<endl;
cout<<"  | | |      ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;
cout<<"LOSER!!! "<<endl;}

}

}else{

cout<<"You took too much time!"<<endl;
cout<<"Time allowed = "<<totTim<<endl;
cout<<"Your time = "<<endTim-begTim<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"  |||      ||"<<endl;
cout<<"  | | |      ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;

```

```
cout<<"LOSER!!! "<<endl;  
}  
  
return 0;  
  
//end 3rd level  
  
}  
  
else{ cout<<"You are wrong"<<endl;  
cout<<"      |=====||"<<endl;  
cout<<"      |          ||"<<endl;  
cout<<"      | , , ,    ||"<<endl;  
cout<<"      | ' , , '   ||"<<endl;  
cout<<"      |         ||"<<endl;  
cout<<"      |         ||"<<endl;  
cout<<"      |         ||"<<endl;  
cout<<"      |         ||"<<endl;  
cout<<"      |         ||"<<endl;  
cout<<"      |         ||"<<endl;  
cout<<"      |         ||"<<endl;  
cout<<"      |         ||"<<endl;  
cin>>ans;  
  
if(ans==(x*y)){cout<<"You are Correct"<<endl;  
  
// LEVEL 3  
  
//Initialize the random number seed  
srand(static_cast<unsigned int>(time(0)));  
  
//Declare 4 variables  
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;  
  
//Randomly choose 2 digits for each  
v=rand()%90+10;  
x=rand()%90+10;
```

```

y=rand()%10+2;
z=rand()%10+2;
totTim=15;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
ans1=v+x;
ans2=y*z;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
cout<<"What is "<<v<<" + "<<x<<endl;
cin>>ans1;
cout<<"What is "<<y<<" * "<<z<<endl;
cin>>ans2;
cout<<"What is "<<ans1<<" - "<<ans2<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

    }
    else{ cout<<"You are wrong"<<endl;
        cout<<"    |=====||"<<endl;
        cout<<"    |      ||"<<endl;
        cout<<"    ,",    ||"<<endl;
    }
}

```

```

cout<<"  ',"'    ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<" _____||"<<endl;
cin>>ans;
if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

return 0;
}

else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',"'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ||     ||"<<endl;
cout<<"  | |     ||"<<endl;
cout<<" _____||"<<endl;
cout<<"LOSER!!! "<<endl;}
}
}else{

```

```

cout<<"You took too much time!"<<endl;
cout<<"Time allowed = "<<totTim<<endl;
cout<<"Your time = "<<endTim-begTim<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"  |||      ||"<<endl;
cout<<"  | | |      ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;
cout<<"LOSER!!! "<<endl;
}

```

```

return 0;
}
else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"  |||      ||"<<endl;
cout<<"  | | |      ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"      ||"<<endl;
cout<<"      ||"<<endl;

```

```

    cout<<" _____||"<<endl;}

    cin>>ans;

    if (ans==(x*y)){ cout<<"You are Correct"<<endl;

        // LEVEL 3

        //Initialize the random number seed
        srand(static_cast<unsigned int>(time(0)));

        //Declare 4 variables
        unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;

        //Randomly choose 2 digits for each
        v=rand()%90+10;
        x=rand()%90+10;
        y=rand()%10+2;
        z=rand()%10+2;

        totTim=15;

        begTim=static_cast<unsigned int>(time(0));

        //Prompt the user for an answer
        ans1=v+x;
        ans2=y*z;

        cout<<"You have "<<totTim<<" seconds to answer"<<endl;

        cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
        cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
        cout<<"What is "<<v<<" + "<<x<<endl;
        cin>>ans1;

        cout<<"What is "<<y<<" * "<<z<<endl;
        cin>>ans2;

        cout<<"What is "<<ans1<<" - "<<ans2<<endl;
        cin>>ans;

        endTim=static_cast<unsigned int>(time(0));

```

```
//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(ans1-ans1)){cout<<"You are Correct"<<endl;

}

else{ cout<<"You are wrong"<<endl;
cout<<"      |=====||"<<endl;
cout<<"      |          ||"<<endl;
cout<<"      ,",          ||"<<endl;
cout<<"      ',,'        ||"<<endl;
cout<<"              ||"<<endl;
cout<<"              ||"<<endl;
cout<<"              ||"<<endl;
cout<<"              ||"<<endl;
cout<<"              ||"<<endl;
cout<<" _____||"<<endl;
cin>>ans;
if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

return 0;
}

else{ cout<<"You are wrong"<<endl;
cout<<"      |=====||"<<endl;
cout<<"      |          ||"<<endl;
```



```

        cout<<"  ,",    ||"<<endl;
        cout<<"  ',,'    ||"<<endl;
        cout<<"  |||    ||"<<endl;
        cout<<"  |||    ||"<<endl;
        cout<<"  |    ||"<<endl;
        cout<<"  ||    ||"<<endl;
        cout<<"  | |    ||"<<endl;
        cout<<"  _____||"<<endl;
        cout<<"LOSER!!! "<<endl;}

    }

}else{

    cout<<"You took too much time!"<<endl;
    cout<<"Time allowed = "<<totTim<<endl;
    cout<<"Your time = "<<endTim-begTim<<endl;
    cout<<"  |=====||"<<endl;
    cout<<"  |    ||"<<endl;
    cout<<"  ,",    ||"<<endl;
    cout<<"  ',,'    ||"<<endl;
    cout<<"  |||    ||"<<endl;
    cout<<"  |||    ||"<<endl;
    cout<<"  |    ||"<<endl;
    cout<<"  ||    ||"<<endl;
    cout<<"  | |    ||"<<endl;
    cout<<"  _____||"<<endl;
    cout<<"LOSER!!! "<<endl;

}

return 0;

```

```

    }
    else{ cout<<"You are wrong"<<endl;
    cout<<"  |=====||"<<endl;
    cout<<"  |      ||"<<endl;
    cout<<"  ,",      ||"<<endl;
    cout<<"  ',,,'      ||"<<endl;
    cout<<"  |||      ||"<<endl;
    cout<<"  | | |      ||"<<endl;
    cout<<"  |      ||"<<endl;
    cout<<"  ||      ||"<<endl;
    cout<<"  | |      ||"<<endl;
    cout<<"  _____||"<<endl;
    cout<<"LOSER!!! "<<endl;}

    }
}else{
    cout<<"You took too much time!"<<endl;
    cout<<"Time allowed = "<<totTim<<endl;
    cout<<"Your time = "<<endTim-begTim<<endl;
    cout<<"  |=====||"<<endl;
    cout<<"  |      ||"<<endl;
    cout<<"  ,",      ||"<<endl;
    cout<<"  ',,,'      ||"<<endl;
    cout<<"  |||      ||"<<endl;
    cout<<"  | | |      ||"<<endl;
    cout<<"  |      ||"<<endl;
    cout<<"  ||      ||"<<endl;
    cout<<"  | |      ||"<<endl;
    cout<<"  _____||"<<endl;

```

```

    cout<<"LOSER!!! "<<endl;
}

return 0;

//end 2nd level
}

else{ cout<<"You are wrong"<<endl;
cout<<"   |=====||"<<endl;
cout<<"   |      ||"<<endl;
cout<<"   ,",      ||"<<endl;
cout<<"   ',,'      ||"<<endl;
cout<<"           ||"<<endl;
cout<<"           ||"<<endl;
cout<<"           ||"<<endl;
cout<<"           ||"<<endl;
cout<<"           ||"<<endl;
cout<<"           ||"<<endl;
cout<<" _____||"<<endl;
cin>>ans;

if(ans==(x+y)){cout<<"You are Correct"<<endl;
// LEVEL 2

//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));

//Declare 2 variables
unsigned int x,y,begTim,endTim,ans,totTim;

//Randomly choose 2 digits for each
x=rand()%10+10;
y=rand()%10+10;
totTim=13;

```

```

begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
cout<<"What is "<<x<<" * "<<y<<endl;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 3 extra second for the reading!"<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(x*y)){cout<<"You are Correct"<<endl;
// LEVEL 3
//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));
//Declare 4 variables
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;
//Randomly choose 2 digits for each
v=rand()%90+10;
x=rand()%90+10;
y=rand()%10+2;
z=rand()%10+2;
totTim=15;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
ans1=v+x;
ans2=y*z;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;

```

[illegible]

```
if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;
```

```
return 0;
```

```
}
```

```
else{ cout<<"You are wrong"<<endl;
```

```
cout<<"  |=====||"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  ,",      ||"<<endl;
```

```
cout<<"  ',,,'      ||"<<endl;
```

```
cout<<"  |||      ||"<<endl;
```

```
cout<<"  | | |      ||"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  | |      ||"<<endl;
```

```
cout<<"  | |      ||"<<endl;
```

```
cout<<"  _____||"<<endl;
```

```
cout<<"LOSER!!! "<<endl;}
```

```
}
```

```
}else{
```

```
cout<<"You took too much time!"<<endl;
```

```
cout<<"Time allowed = "<<totTim<<endl;
```

```
cout<<"Your time = "<<endTim-begTim<<endl;
```

```
cout<<"  |=====||"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  ,",      ||"<<endl;
```

```
cout<<"  ',,,'      ||"<<endl;
```

```
cout<<"  |||      ||"<<endl;
```

```

    cout<<" | | |   ||"<<endl;
    cout<<" |       ||"<<endl;
    cout<<" | |     ||"<<endl;
    cout<<" | |     ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;
}

}

else{ cout<<"You are wrong"<<endl;
    cout<<" |=====||"<<endl;
    cout<<" |       ||"<<endl;
    cout<<" ,",     ||"<<endl;
    cout<<" ',,'    ||"<<endl;
    cout<<"         ||"<<endl;
    cout<<"         ||"<<endl;
    cout<<"         ||"<<endl;
    cout<<"         ||"<<endl;
    cout<<"         ||"<<endl;
    cout<<" _____||"<<endl;
    cin>>ans;

    if(ans==(x*y)){cout<<"You are Correct"<<endl;

// LEVEL 3

//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));

//Declare 4 variables
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;

//Randomly choose 2 digits for each
v=rand()%90+10;

```

```

x=rand()%90+10;
y=rand()%10+2;
z=rand()%10+2;
totTim=15;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
ans1=v+x;
ans2=y*z;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
cout<<"What is "<<v<<" + "<<x<<endl;
cin>>ans1;
cout<<"What is "<<y<<" * "<<z<<endl;
cin>>ans2;
cout<<"What is "<<ans1<<" - "<<ans2<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

    }
    else{ cout<<"You are wrong"<<endl;
    cout<<"    |=====||"<<endl;
    cout<<"    |      ||"<<endl;

```



```

cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<" _____||"<<endl;
cin>>ans;

if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

return 0;
}

else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ||     ||"<<endl;
cout<<"  | |     ||"<<endl;
cout<<" _____||"<<endl;
cout<<"LOSER!!! "<<endl;}
}

```

```

}else{

    cout<<"You took too much time!"<<endl;

    cout<<"Time allowed = "<<totTim<<endl;

    cout<<"Your time = "<<endTim-begTim<<endl;

    cout<<"    |=====||"<<endl;
    cout<<"    |      ||"<<endl;
    cout<<"    ,",    ||"<<endl;
    cout<<"    ',,'    ||"<<endl;
    cout<<"    |||    ||"<<endl;
    cout<<"    | | |    ||"<<endl;
    cout<<"    |      ||"<<endl;
    cout<<"    | |      ||"<<endl;
    cout<<"    | |      ||"<<endl;

    cout<<" _____||"<<endl;

    cout<<"LOSER!!! "<<endl;

}

```

```

return 0;

}

else{ cout<<"You are wrong"<<endl;

    cout<<"    |=====||"<<endl;
    cout<<"    |      ||"<<endl;
    cout<<"    ,",    ||"<<endl;
    cout<<"    ',,'    ||"<<endl;
    cout<<"    |||    ||"<<endl;
    cout<<"    | | |    ||"<<endl;
    cout<<"    |      ||"<<endl;
    cout<<"          ||"<<endl;

```

```

    cout<<"          ||"<<endl;
    cout<<" _____||"<<endl;}

    cin>>ans;

    if (ans==(x*y)){ cout<<"You are Correct"<<endl;

    // LEVEL 3

    //Initialize the random number seed
    srand(static_cast<unsigned int>(time(0)));

    //Declare 4 variables
    unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;

    //Randomly choose 2 digits for each
    v=rand()%90+10;
    x=rand()%90+10;
    y=rand()%10+2;
    z=rand()%10+2;
    totTim=15;
    begTim=static_cast<unsigned int>(time(0));

    //Prompt the user for an answer
    ans1=v+x;
    ans2=y*z;

    cout<<"You have "<<totTim<<" seconds to answer"<<endl;
    cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
    cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
    cout<<"What is "<<v<<" + "<<x<<endl;
    cin>>ans1;
    cout<<"What is "<<y<<" * "<<z<<endl;
    cin>>ans2;
    cout<<"What is "<<ans1<<" - "<<ans2<<endl;
    cin>>ans;

```

```
endTime=static_cast<unsigned int>(time(0));
```

```
//Determine if correct
```

```
if(totTim>endTime-begTim){
```

```
    if(ans==(ans1-ans1)){cout<<"You are Correct"<<endl;
```

```
    }
```

```
    else{ cout<<"You are wrong"<<endl;
```

```
        cout<<"    |=====||"<<endl;
```

```
        cout<<"    |    ||"<<endl;
```

```
        cout<<"    ,",    ||"<<endl;
```

```
        cout<<"    ',,'    ||"<<endl;
```

```
        cout<<"        ||"<<endl;
```

```
        cout<<"        ||"<<endl;
```

```
        cout<<"        ||"<<endl;
```

```
        cout<<"        ||"<<endl;
```

```
        cout<<"        ||"<<endl;
```

```
        cout<<"        _____||"<<endl;
```

```
        cin>>ans;
```

```
        if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;
```

```
        return 0;
```

```
    }
```

```
    else{ cout<<"You are wrong"<<endl;
```

```
        cout<<"    |=====||"<<endl;
```

```

    cout<<"    |    ||"<<endl;
    cout<<"  ,",    ||"<<endl;
    cout<<"  ',,'    ||"<<endl;
    cout<<"  |||    ||"<<endl;
    cout<<"  | | |    ||"<<endl;
    cout<<"    |    ||"<<endl;
    cout<<"  ||    ||"<<endl;
    cout<<"  | |    ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;}
}
}else{
    cout<<"You took too much time!"<<endl;
    cout<<"Time allowed = "<<totTim<<endl;
    cout<<"Your time = "<<endTim-begTim<<endl;
    cout<<"  |=|=|=|=|=|=|=||"<<endl;
    cout<<"    |    ||"<<endl;
    cout<<"  ,",    ||"<<endl;
    cout<<"  ',,'    ||"<<endl;
    cout<<"  |||    ||"<<endl;
    cout<<"  | | |    ||"<<endl;
    cout<<"    |    ||"<<endl;
    cout<<"  ||    ||"<<endl;
    cout<<"  | |    ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;
}
}

```

```

return 0;
}
else{ cout<<"You are wrong"<<endl;
cout<<"  |=====|"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"  |||      ||"<<endl;
cout<<"  | | |      ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ||      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;
cout<<"LOSER!!! "<<endl;}
}
}else{
cout<<"You took too much time!"<<endl;
cout<<"Time allowed = "<<totTim<<endl;
cout<<"Your time = "<<endTim-begTim<<endl;
cout<<"  |=====|"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"  |||      ||"<<endl;
cout<<"  | | |      ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ||      ||"<<endl;
cout<<"  | |      ||"<<endl;

```

```

    cout<<" _____"||"<<endl;
    cout<<"LOSER!!! "<<endl;
}

    return 0;
//2nd level ends here
}
else {cout<<"You are wrong"<<endl;
    cout<<" |=====|"<<endl;
    cout<<" |      |"<<endl;
    cout<<" |,|,      |"<<endl;
    cout<<" |,,|      |"<<endl;
    cout<<" |      |"<<endl;
    cout<<" |      |"<<endl;
    cout<<" |      |"<<endl;
    cout<<"      |"<<endl;
    cout<<"      |"<<endl;
    cout<<" _____"||"<<endl;}
    cin>>ans;

    if(ans==(x+y)){cout<<"You are Correct"<<endl;

        // LEVEL 2

//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));

//Declare 2 variables
unsigned int x,y,begTim,endTim,ans,totTim;

//Randomly choose 2 digits for each
x=rand()%10+10;
y=rand()%10+10;

```

```

totTim=13;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
cout<<"What is "<<x<<" * "<<y<<endl;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 3 extra second for the reading!"<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(x*y)){cout<<"You are Correct"<<endl;
// LEVEL 3
//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));
//Declare 4 variables
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;
//Randomly choose 2 digits for each
v=rand()%90+10;
x=rand()%90+10;
y=rand()%10+2;
z=rand()%10+2;
totTim=15;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
ans1=v+x;
ans2=y*z;

```


[illegible]

```

cin>>ans;

if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

```

```

return 0;

}

```

```

else{ cout<<"You are wrong"<<endl;

cout<<"  |=====|"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;
cout<<"LOSER!!! "<<endl;}

}

}else{

cout<<"You took too much time!"<<endl;
cout<<"Time allowed = "<<totTim<<endl;
cout<<"Your time = "<<endTim-begTim<<endl;

cout<<"  |=====|"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;

```

```

    cout<<"  |||  ||"<<endl;
    cout<<"  ||  ||"<<endl;
    cout<<"  |  ||"<<endl;
    cout<<"  ||  ||"<<endl;
    cout<<"  |  ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;
}

}

else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |  ||"<<endl;
cout<<"  ,",  ||"<<endl;
cout<<"  ',,'  ||"<<endl;
cout<<"  ||"<<endl;
cout<<"  ||"<<endl;
cout<<"  ||"<<endl;
cout<<"  ||"<<endl;
cout<<"  ||"<<endl;
cout<<" _____||"<<endl;
cin>>ans;
if(ans==(x*y)){cout<<"You are Correct"<<endl;

return 0;

}

else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;

```

```

cout<<"    |    ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"    |    ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<" _____||"<<endl;}

cin>>ans;

if (ans==(x*y)){ cout<<"You are Correct"<<endl;

// LEVEL 3

//Initialize the random number seed

srand(static_cast<unsigned int>(time(0)));

//Declare 4 variables

unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;

//Randomly choose 2 digits for each

v=rand()%90+10;
x=rand()%90+10;
y=rand()%10+2;
z=rand()%10+2;

totTim=15;

begTim=static_cast<unsigned int>(time(0));

//Prompt the user for an answer

ans1=v+x;

ans2=y*z;

cout<<"You have "<<totTim<<" seconds to answer"<<endl;

cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;

```

```

cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
cout<<"What is "<<v<<" + "<<x<<endl;
cin>>ans1;
cout<<"What is "<<y<<" * "<<z<<endl;
cin>>ans2;
cout<<"What is "<<ans1<<" - "<<ans2<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

```

```

//Determine if correct

```

```

if(totTim>endTim-begTim){
    if(ans==(ans1-ans1)){cout<<"You are Correct"<<endl;

```

```

    }

```

```

    else{ cout<<"You are wrong"<<endl;

```

```

    cout<<"    |=====||"<<endl;

```

```

    cout<<"    |    ||"<<endl;

```

```

    cout<<"    ,",    ||"<<endl;

```

```

    cout<<"    ',,'    ||"<<endl;

```

```

    cout<<"    ||"<<endl;

```

```

    cout<<"    ||"<<endl;

```

```

    cout<<"    ||"<<endl;

```

```

    cout<<"    ||"<<endl;

```

```

    cout<<"    ||"<<endl;

```

```

    cout<<"    _____||"<<endl;

```

```

    cin>>ans;

```

```

    if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

```

```
return 0;
```

```
}
```

```
else{ cout<<"You are wrong"<<endl;
```

```
cout<<"  |=====|"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  ,",    ||"<<endl;
```

```
cout<<"  ',,'    ||"<<endl;
```

```
cout<<"  |||    ||"<<endl;
```

```
cout<<"  | | |   ||"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  | |     ||"<<endl;
```

```
cout<<"  | |     ||"<<endl;
```

```
cout<<"  _____||"<<endl;
```

```
cout<<"LOSER!!! "<<endl;}
```

```
}
```

```
}else{
```

```
cout<<"You took too much time!"<<endl;
```

```
cout<<"Time allowed = "<<totTim<<endl;
```

```
cout<<"Your time = "<<endTim-begTim<<endl;
```

```
cout<<"  |=====|"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  ,",    ||"<<endl;
```

```
cout<<"  ',,'    ||"<<endl;
```

```
cout<<"  |||    ||"<<endl;
```

```
cout<<"  | | |   ||"<<endl;
```

```

    cout<<"    |    ||"<<endl;
    cout<<"  ||    ||"<<endl;
    cout<<"  | |    ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;
}

//Lvel 3 ends here

return 0;

}

else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"    |    ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"    |    ||"<<endl;
cout<<"  ||    ||"<<endl;
cout<<"  | |    ||"<<endl;
cout<<" _____||"<<endl;
cout<<"LOSER!!! "<<endl;}

}

}else{

    cout<<"You took too much time!"<<endl;
    cout<<"Time allowed = "<<totTim<<endl;
    cout<<"Your time = "<<endTim-begTim<<endl;
    cout<<"  |=====||"<<endl;
    cout<<"    |    ||"<<endl;

```

```

cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ||      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;
cout<<"LOSER!!! "<<endl;
}

```

```

return 0;

```

```

//2nd level end here

```

```

}

```

```

else{ cout<<"You are wrong"<<endl;

```

```

cout<<"  |=====||"<<endl;

```

```

cout<<"  |      ||"<<endl;

```

```

cout<<"  ,",    ||"<<endl;

```

```

cout<<"  ',,'    ||"<<endl;

```

```

cout<<"  |||    ||"<<endl;

```

```

cout<<"  | | |    ||"<<endl;

```

```

cout<<"  |      ||"<<endl;

```

```

cout<<"      ||"<<endl;

```

```

cout<<"      ||"<<endl;

```

```

cout<<"  _____||"<<endl;}

```

```

cin>>ans;

```

```

if (ans==(x+y)){ cout<<"You are Correct"<<endl;

```

```

// LEVEL 2

```



```

//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));

//Declare 2 variables
unsigned int x,y,begTim,endTim,ans,totTim;

//Randomly choose 2 digits for each
x=rand()%10+10;
y=rand()%10+10;
totTim=13;
begTim=static_cast<unsigned int>(time(0));

//Prompt the user for an answer
cout<<"What is "<<x<<" * "<<y<<endl;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 3 extra second for the reading!"<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(x*y)){ cout<<"You are Correct"<<endl;
// LEVEL 3
//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));

//Declare 4 variables
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;

//Randomly choose 2 digits for each
v=rand()%90+10;
x=rand()%90+10;

```

```

y=rand()%10+2;
z=rand()%10+2;
totTim=15;
begTim=static_cast<unsigned int>(time(0));
//Prompt the user for an answer
ans1=v+x;
ans2=y*z;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
cout<<"What is "<<v<<" + "<<x<<endl;
cin>>ans1;
cout<<"What is "<<y<<" * "<<z<<endl;
cin>>ans2;
cout<<"What is "<<ans1<<" - "<<ans2<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct
if(totTim>endTim-begTim){
    if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

    }
    else{ cout<<"You are wrong"<<endl;
        cout<<"    |=====||"<<endl;
        cout<<"    |      ||"<<endl;
        cout<<"    |      ||"<<endl;
        cout<<"    |      ||"<<endl;
    }
}

```

```

cout<<"  ',"'    ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<"        ||"<<endl;
cout<<" _____||"<<endl;
cin>>ans;
if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;

return 0;
}
//Level 3 ends here
else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,,"    ||"<<endl;
cout<<"  ',"'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ||      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;
cout<<"LOSER!!! "<<endl;}
}
}else{

```

```

cout<<"You took too much time!"<<endl;
cout<<"Time allowed = "<<totTim<<endl;
cout<<"Your time = "<<endTim-begTim<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"  |||      ||"<<endl;
cout<<"  | | |      ||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ||      ||"<<endl;
cout<<"  | |      ||"<<endl;
cout<<"  _____||"<<endl;
cout<<"LOSER!!! "<<endl;
}

}

else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"  |      ||"<<endl;
cout<<"  ,",      ||"<<endl;
cout<<"  ',,'      ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<"          ||"<<endl;
cout<<"  _____||"<<endl;
cin>>ans;

```

```

    if(ans==(x*y)){cout<<"You are Correct"<<endl;

    // LEVEL 3

//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));

//Declare 4 variables
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;

//Randomly choose 2 digits for each
v=rand()%90+10;
x=rand()%90+10;
y=rand()%10+2;
z=rand()%10+2;
totTim=15;
begTim=static_cast<unsigned int>(time(0));

//Prompt the user for an answer
ans1=v+x;
ans2=y*z;
cout<<"You have "<<totTim<<" seconds to answer"<<endl;
cout<<"If you miss 3 times you'll lose and if you get it you will move to the "<<endl;
cout<<"next level & if time its up you lose. 5 extra second extra work!"<<endl;
cout<<"What is "<<v<<" + "<<x<<endl;
cin>>ans1;
cout<<"What is "<<y<<" * "<<z<<endl;
cin>>ans2;
cout<<"What is "<<ans1<<" - "<<ans2<<endl;
cin>>ans;
endTim=static_cast<unsigned int>(time(0));

//Determine if correct

```



```

    cout<<"   |||   ||"<<endl;
    cout<<"  | | |   ||"<<endl;
    cout<<"   |     ||"<<endl;
    cout<<"  | |     ||"<<endl;
    cout<<"  | |     ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;}
}
}else{
    cout<<"You took too much time!"<<endl;
    cout<<"Time allowed = "<<totTim<<endl;
    cout<<"Your time = "<<endTim-begTim<<endl;
    cout<<"  |=====||"<<endl;
    cout<<"   |     ||"<<endl;
    cout<<"  ,",     ||"<<endl;
    cout<<"  ',,,'   ||"<<endl;
    cout<<"   |||   ||"<<endl;
    cout<<"  | | |   ||"<<endl;
    cout<<"   |     ||"<<endl;
    cout<<"  | |     ||"<<endl;
    cout<<"  | |     ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;
}

//Level 3 ends here

return 0;

}

else{ cout<<"You are wrong"<<endl;

```

```

cout<<"   |=====|"<<endl;
cout<<"   |      ||"<<endl;
cout<<"   ,",      ||"<<endl;
cout<<"   ',,'      ||"<<endl;
cout<<"   |||      ||"<<endl;
cout<<"   | | |      ||"<<endl;
cout<<"   |      ||"<<endl;
cout<<"      ||"<<endl;
cout<<"      ||"<<endl;
cout<<" _____|"<<endl;}

cin>>ans;

if (ans==(x*y)){ cout<<"You are Correct"<<endl;

// LEVEL 3

//Initialize the random number seed
srand(static_cast<unsigned int>(time(0)));

//Declare 4 variables
unsigned int v,x,y,z,begTim,endTim,ans1,ans2,ans,totTim;

//Randomly choose 2 digits for each
v=rand()%90+10;
x=rand()%90+10;
y=rand()%10+2;
z=rand()%10+2;
totTim=15;

begTim=static_cast<unsigned int>(time(0));

//Prompt the user for an answer
ans1=v+x;
ans2=y*z;

cout<<"You have "<<totTim<<" seconds to answer"<<endl;

```


[illegible]

```
if(ans==(ans1-ans2)){cout<<"You are Correct"<<endl;
```

```
return 0;
```

```
}
```

```
else{ cout<<"You are wrong"<<endl;
```

```
cout<<"  |=====||"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  ,",      ||"<<endl;
```

```
cout<<"  ',,,'      ||"<<endl;
```

```
cout<<"  |||      ||"<<endl;
```

```
cout<<"  | | |      ||"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  | |      ||"<<endl;
```

```
cout<<"  | |      ||"<<endl;
```

```
cout<<"  _____||"<<endl;
```

```
cout<<"LOSER!!! "<<endl;}
```

```
}
```

```
}else{
```

```
cout<<"You took too much time!"<<endl;
```

```
cout<<"Time allowed = "<<totTim<<endl;
```

```
cout<<"Your time = "<<endTim-begTim<<endl;
```

```
cout<<"  |=====||"<<endl;
```

```
cout<<"  |      ||"<<endl;
```

```
cout<<"  ,",      ||"<<endl;
```

```
cout<<"  ',,,'      ||"<<endl;
```

```
cout<<"  |||      ||"<<endl;
```

```

    cout<<" | | |   ||"<<endl;
    cout<<" |       ||"<<endl;
    cout<<" | |     ||"<<endl;
    cout<<" | |     ||"<<endl;
    cout<<" _____||"<<endl;
    cout<<"LOSER!!! "<<endl;
}

//Level 3 ends here

return 0;

}

else{ cout<<"You are wrong"<<endl;
cout<<" |=====||"<<endl;
cout<<" |       ||"<<endl;
cout<<" ,",     ||"<<endl;
cout<<" ',,'    ||"<<endl;
cout<<" | | |   ||"<<endl;
cout<<" | | |   ||"<<endl;
cout<<" |       ||"<<endl;
cout<<" | |     ||"<<endl;
cout<<" | |     ||"<<endl;
cout<<" _____||"<<endl;
cout<<"LOSER!!! "<<endl;}

}

}else{

    cout<<"You took too much time!"<<endl;
    cout<<"Time allowed = "<<totTim<<endl;
    cout<<"Your time = "<<endTim-begTim<<endl;
    cout<<" |=====||"<<endl;

```

```

cout<<"    |    ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"    |    ||"<<endl;
cout<<"  ||    ||"<<endl;
cout<<"  | |    ||"<<endl;
cout<<" _____||"<<endl;
cout<<"LOSER!!! "<<endl;
}

```

```

return 0;

```

```

//Level 2 ends here

```

```

}

else{ cout<<"You are wrong"<<endl;
cout<<"  |=====||"<<endl;
cout<<"    |    ||"<<endl;
cout<<"  ,",    ||"<<endl;
cout<<"  ',,'    ||"<<endl;
cout<<"  |||    ||"<<endl;
cout<<"  | | |    ||"<<endl;
cout<<"    |    ||"<<endl;
cout<<"  ||    ||"<<endl;
cout<<"  | |    ||"<<endl;
cout<<" _____||"<<endl;}
cout<<"LOSER!!! "<<endl;
}

```

```

}else{

    cout<<"You took too much time!"<<endl;

    cout<<"Time allowed = "<<totTim<<endl;

    cout<<"Your time = "<<endTim-begTim<<endl;

    cout<<"    |=====||"<<endl;

    cout<<"    |      ||"<<endl;

    cout<<"    ,",      ||"<<endl;

    cout<<"    ',,'      ||"<<endl;

    cout<<"    |||      ||"<<endl;

    cout<<"    | | |      ||"<<endl;

    cout<<"    |      ||"<<endl;

    cout<<"    ||      ||"<<endl;

    cout<<"    | |      ||"<<endl;

    cout<<"    _____||"<<endl;

    cout<<"LOSER!!! "<<endl;

}

```

```

//Exit stage right

```

```

return 0;

```

```

}

```