



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

Student Details

Roll No. 1913023

Name Pranav Kalambe

TITLE: Mini Project

Problem Definition:

The given program is a quiz game KBC type.

The user has to first qualify the qualifying question, and then the quiz starts.
Every question has 5 options out of which only 1 is correct.

The 5th option is a lifeline which consists of three helping aids the first is the swap which changes the question. the second lifeline is the 50-50 in which only two options are left and user needs to choose anyone of them.

Also every lifeline can be used only once and with every increase in your question the amount won goes on increasing.

Implementation details:

```
#include <stdio.h>
void rules();
void lines();
void swap();
int main()
{
    char name[100];
    int i,k=1,lifeline,youwon=25000;
    int lswap=1,lifty=1;
    printf("What is your name:\n");
    //gets(name);
    scanf("%s",name);
    printf("Welcome %s , Good luck !!\n\n",name);
    printf("NOTE:\nPlease use capital letters according to the option  
otherwise your answer will be consider wrong\n\n");
    printf("Qualifying Question\n\n");
    //Fastest Finger First
    char ff[4];
    printf("Q)Arrange the following in the increasing order of their time  
period?\n");
    printf("A) Decade\t\t\t ");
    printf("B) Quadrennium\n");
```



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```
printf("C) Millennium\t\t ");
printf("D) Century\n\n");
printf("Answer: ");
scanf("%s",ff);
if(ff[0]=='B' && ff[1]=='A' && ff[2]=='D' && ff[3]=='C')
{
    printf("\nLet's start with quiz \n\n");
}
else
{
    printf("Sorry %s, you are not qualified \n",name);
    youwon=0;
    goto end;
}
rules();
lines();
// starting quiz char ans[0];
switch(k)
{
    //question 1
    case 1:
    {
        label1:
        printf("\n\nQ1]How many bones does an adult body have?\n");
        printf("A) 270\t\t\t");
        printf(" B) 204\n");
        printf("C) 206\t\t\t ");
        printf("D) 272\n");
        printf("X) Lifeline\n\n");
        printf("Choose a option: ");
        scanf("%s",ans);
        if(ans[0]=='X')
        {
            printf("\nLifelines:\n");
            printf("1] swap the question\n");
            printf("2] 50-50\n");
            printf("3] Back to the question\n\n");
            printf("Enter anyone: ");
            scanf("%d",&lifeline);
            switch(lifeline)
            {
                //Lifelines
                case 1:
                {
                    //life line swap
```



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```
if(lswap==0)
{
    printf("This life line is used before\n");
    goto label1;
}
lswap--;
swap();
scanf("%s",ans);
if(ans[0]=='A')
{
    printf("Right answer !!\n");
    printf("Great %s , You won cash prize of
%d\n",name,youwon);
    youwon=youwon*2;
    lines();
    ans[0]=0;
    goto label2;
}
else
{
    printf("wrong answer \n");
    lines();
    youwon=0;
    goto end;
}
break;// YA DEKH
}
case 2:
{
    //life line 50 50
    if(lfifty==0)
    {
        lfifty--;
        printf("\n\nQ1]How many bones does an adult body have?\n");
        printf("A) 270\t\t\t");
        printf(" B)\n");
        printf("C) 206\t\t\t");
        printf("D)\n");
        printf("Choose a option: ");
        scanf("%s",ans);
        goto fifty1;
    }
    else
    {
        printf("This life line is used before\n");
```



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```
        goto label1;
    }
    break;
}
case 3:
{
    goto label1;
}
}
}
fifty1:
if(ans[0]=='C')
{
    printf("Right answer !!\n");
    printf("Great %s , You won cash prize of %d\n",name,youwon);
    youwon=youwon*2;
    lines();
    goto label2;
}
else
{
    printf("Wrong answer");
    youwon=0;
    goto end;
}
}
case 2:
{
    label2:
    printf("\n\nQ2]Who is the inventor of electricity?\n");
    printf("A) Benjamin Franklin\t");
    printf("B) Thomas Edison\n");
    printf("C) Nikola Tesla\t\t\t");
    printf("D) Issac Newton\n");
    printf("X) Lifeline\n\n");
    printf("Choose a option: ");
    scanf("%s",ans);
    if(ans[0]=='X')
    {
        printf("\nLifelines:\n");
        printf("1] swap the question\n");
        printf("2] 50-50\n");
        printf("3] Back to the question\n\n");
        printf("Enter anyone: ");
        scanf("%d",&lifeline);
    }
}
```



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```
switch(lifeline)
{
    //Lifelines
    case 1:
    {
        //life line swap
        if(lswap==0)
        {
            printf("This life line is used before\n");
            goto label2;
        }
        lswap--;
        swap();
        scanf("%s",ans);
        if(ans[0]=='A')
        {
            printf("Right answer !!\n");
            printf("Great %s , You won cash prize of
%d\n",name,youwon);
            youwon=youwon*2;
            lines();
            ans[0]=0;
            goto label3;
        }
        else
        {
            printf("wrong answer \n");
            lines();
            goto end;
        }
        break;// YA DEKH
    }
    case 2:
    {
        //life line 50 50
        if(lfifty==0)
        {
            lfifty--;
            printf("\n\nQ1]Who is the inventor of electricity?\n");
            printf("A) Benjamin Franklin\t");
            printf("B) \n");
            printf("C) Nikola Tesla\t\t\t ");
            printf("D)\n\n");
            printf("Choose a option: ");
            scanf("%s",ans);
        }
    }
}
```



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```
        goto fifty2;
    }
    else
    {
        printf("This life line is used before\n");
        goto label2;
    }
    break;
}
case 3:
{
    goto label2;
}
}
}
fifty2:
if(ans[0]=='A')
{
    printf("Right answer !!\n");
    printf("Great %s , You won cash prize of %d\n",name,youwon);
    youwon=youwon*2;
    lines();
    goto label3;
}
else
{
    printf("Wrong answer");
    goto end;
}
}
case 3:
{
    // QUESTION 3
    label3:
    printf("\n\nQ3]Which planet is known as the 'Red Planet'?");
    printf("A) Jupiter\t\t\t");
    printf(" B) Mars\n");
    printf("C) Venus\t\t\t");
    printf("D) Saturn\n");
    printf("X) Lifeline\n\n");
    printf("Choose a option: ");
    scanf("%s",ans);
    if(ans[0]=='X')
    {
        printf("\nLifelines:\n");
    }
}
```



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```
printf("1] swap the question\n");
printf("2] 50-50\n");
printf("3] Back to the question\n\n");
printf("Enter anyone: ");
scanf("%d",&lifeline);
switch(lifeline)
{
    //Lifelines
    case 1:
    {
        //life line swap
        if(lswap==0)
        {
            printf("This life line is used before\n");
            goto label3;
        }
        lswap--;
        swap();
        scanf("%s",ans);
        if(ans[0]=='B')
        {
            printf("Right answer !!\n");
            printf("Great %s , You won cash prize of
%d\n",name,youwon);
            youwon=youwon*2;
            lines();
            ans[0]=0;
            goto label4;
        }
        else
        {
            printf("wrong answer \n");
            lines();
            goto end;
        }
        break;// YA DEKH
    }
    case 2:
    {
        //life line 50 50
        if(lfifty==0)
        {
            lfifty--;
            printf("\n\nQ3]Which planet is known as the 'Red
Planet'?\n");
```



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```
printf("A) \t\t\t");
printf(" B) Mars\n");
printf("C) Venus\t\t ");
printf("D)\n");
printf("Choose a option: ");
scanf("%s",ans);
goto fifty3;
}
else
{
printf("This life line is used before\n");
goto label3;
}
break;
}
case 3:
{
goto label3;
}
}
}
fifty3:
if(ans[0]=='B')
{
printf("Right answer !!\n");
printf("Great %s , You won cash prize of %d\n",name,youwon);
youwon=youwon*2;
lines();
goto label4;
}
else
{
printf("Wrong answer");
goto end;
}
}
case 4:
{
// QUESTION 4
label4:
printf("\n\nQ4]Who is the founder of microsoft?\n");
printf("A) Mark Zuckerberg\n");
printf("B) Bill Gates\n");
printf("C) Steve Jobs\n");
printf("D) Sundar Pichai\n");
```




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```
printf("X) Lifeline\n\n");
printf("Choose a option: ");
scanf("%s",ans);
if(ans[0]=='X')
{
    printf("\nLifelines:\n");
    printf("1] swap the question\n");
    printf("2] 50-50\n");
    printf("3] Back to the question\n\n");
    printf("Enter anyone: ");
    scanf("%d",&lifeline);
    switch(lifeline)
    {
        //Lifelines
        case 1:
        {
            //life line swap
            if(lswap==0)
            {
                printf("This life line is used before\n");
                goto label4;
            }
            lswap--;
            swap();
            scanf("%s",ans);
            if(ans[0]=='A')
            {
                printf("Right answer !!\n");
                printf("Great %s , You won cash prize of
%d\n",name,youwon);
                youwon=youwon*2;
                lines();
                ans[0]=0;
                goto label5;
            }
            else
            {
                printf("wrong answer \n");
                lines();
                goto end;
            }
            break;// YA DEKH
        }
        case 2:
        {
```



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```
//life line 50 50
if(lfifty==0)
{
    lfifty--;
    printf("\n\nQ4]Who is the founder of microsoft?\n");
    printf("A) Mark Zuckerberg\n");
    printf("B) Bill Gates\n");
    printf("C) \n");
    printf("D)\n");
    printf("Choose a option: ");
    scanf("%s",ans);
    goto fifty4;
}
else
{
    printf("This life line is used before\n");
    goto label4;
}
break;
}
case 3:
{
    goto label4;
}
}
}
fifty4:
if(ans[0]=='B')
{
    printf("Right answer !!\n");
    printf("Great %s , You won cash prize of %d\n",name,youwon);
    youwon=youwon*2;
    lines();
    goto label5;
}
else
{
    printf("Wrong answer");
    goto end;
}
case 5:
{
    // QUESTION 5
    label5:
    printf("\n\nQ5]Optical fiber works on the principle of:\n");
```



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```
printf("A) Refraction\n");
printf("B) Scattering\n");
printf("C) Total Internal Reflection\n");
printf("D) Interference\n");
printf("X) Lifeline\n\n");
printf("Choose a option: ");
scanf("%s",ans);
if(ans[0]=='X')
{
    printf("\nLifelines:\n");
    printf("1] swap the question\n");
    printf("2] 50-50\n");
    printf("3] Back to the question\n\n");
    printf("Enter anyone: ");
    scanf("%d",&lifeline);
    switch(lifeline)
    {
        //Lifelines
        case 1:
        {
            //life line swap
            if(lswap==0)
            {
                printf("This life line is used before\n");
                goto label5;
            }
            lswap--;
            swap();
            scanf("%s",ans);
            if(ans[0]=='B')
            {
                printf("Right answer !!\n");
                printf("Great %s , You won cash prize of
%d\n",name,youwon);
                youwon=youwon*2;
                lines();
                ans[0]=0;
                goto label6;
            }
        }
        else
        {
            printf("wrong answer \n");
            lines();
            goto end;
        }
    }
}
```



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```
        break;// YA DEKH
    }
    case 2:
    {
        //life line 50 50
        if(lfifty==0)
        {
            lfifty--;
            printf("\n\nQ5]Optical fiber works on the principle
of:\n");
            printf("A)\n");
            printf("B)\n");
            printf("C) Total Internal Reflection\n");
            printf("D) Interference\n");
            printf("Choose a option: ");
            scanf("%s",ans);
            goto fifty5;
        }
        else
        {
            printf("This life line is used before\n");
            goto label5;
        }
        break;
    }
    case 3:
    {
        goto label5;
    }
}
fifty5:
if(ans[0]=='C')
{
    printf("Right answer !!\n");
    printf("Great %s , You won cash prize of %d\n",name,youwon);
    youwon=youwon*2;
    lines();
    goto label6;
}
else
{
    printf("Wrong answer");
    goto end;
}
```



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```
    }
    }
}
label6:
end:
printf("\n Congratulations %s , You have won Rs.%d ",name,youwon/2);
return 0;
}
void swap()
{
    char *ans;
    printf("Q] Which is the largest flower in the world?\n");
    printf("A) Rafflesia\t\t ");
    printf("B) Bluebell\n");
    printf("C) Cherry blossom\t ");
    printf("D) Hyacinth\n\n");
    printf("Choose a option: ");
}
void lines()
{
    int i;
    for(i=0;i<=65;i++)
    {
        printf("_");
    }
    printf("\n");
}
void rules()
{
    //stages of game
    int amount=400000,k=5,i;
    printf("The following are 5 stages of the game:\n");
    for(i=1;i<=20;i++)
    {
        printf("\n\t%d] Rs \t %d \n",k,amount);
        amount=amount/2;
        k--;
        if(k==0)
        {
            k++;
            break;
        }
    }
}
```



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Output(s):

In this output the user is unable to even qualify for the quiz.

```
clang version 7.0.0-3~ubuntu0.18.04.1 (tags/RELEASE_700/final)
➤ clang-7 -pthread -lm -o main main.c
➤ ./main
What is your name:
PRANAV
Welcome PRANAV , Good luck !!

NOTE:
Please use capital letters according to the option otherwise your answer will be consider wrong

Qualifying Question

Q)Arrange the following in the increasing order of their time peroid?
A) Decade           B) Quadrennium
C) Millennium       D) Century

Answer: BADC

Let's start with quiz

The following are 5 stages of the game:

5] Rs    400000

4] Rs    200000

3] Rs    100000

2] Rs    50000

1] Rs    25000

-----

Q1]How many bones does an adult body have?
A) 270           B) 204
C) 206           D) 272
X) Lifeline

Choose a option: C
Right answer !!
Great PRANAV , You won cash prize of 25000

-----
```



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```
Q2]Who is the inventor of electricity?  
A) Benjamin Franklin    B) Thomas Edison  
C) Nikola Tesla          D) Issac Newton  
X) Lifeline
```

```
Choose a option: A  
Right answer !!  
Great PRANAV , You won cash prize of 50000
```

```
Q3]Which planet is known as the 'Red Planet'?  
A) Jupiter                B) Mars  
C) Venus                  D) Saturn  
X) Lifeline
```

```
Choose a option: C  
Wrong answer  
Congratulations PRANAV , You have won Rs.50000
```

In the other output photos of the given program it shows the working of the various lifelines (by roll no. 1913039) and what if the user is not qualified (by roll no. 1913022).