

## Introduction

Inspired by the original KBC, which awards knowledge and passion to educate oneself, we decided to make our own version of KBC. It has the same structure and has four lifelines as well. As for the functions, we have only used the functions in the syllabus apart from `delay()`. As the name suggests, it is used to cause a time delay. Header file for this function is `<dos.h>`.

The user will answer 15 multiple choice questions in total which are in random order. He/she has 4 lifelines to assist him/her: 50-50, expert advice, double dip, audience poll. Questions are stored in array of structures.

**CODE**

# Documentation

This is the list of the user defined functions in the program, their purposes and arguments.

## 1. Questions que1[]

It's an array of objects, used for storing questions and their options in the program.

## 2. Correct(int,int )

Used for showing the amount of money received after every correct answer.

## 3. Rules()

Used for displaying rules.

## 4. Loading()

Used for showing loading message.

## 5. Kbc()

To display Kaun Banega Crorepati logo.

## 6. Wrong(char,int)

Used for showing amount of money credited according to checkpoint after giving the wrong answer.

## 7. Expert and audience

Both are invoked when the player seeks these lifelines.

## 8. Lifeline(int flag)

This is a function which provides user the menu with his remaining lifelines in the game.

To decide which lifelines have already been availed by the user previously, we assign a fixed integer to each lifeline.

- 2 for 50-50
- 4 for expert advice
- 7 for double dip

- 12 for audience poll

Whenever a particular lifeline is used, its constant is added to flag. By flag's unique values, we decide how many and which all lifelines have already been used.

For example,

- Let for ques 2 the player used 50-50 ('n'=1 in this case).
- This increments the value of flag(earlier==0) by 2.
- Now when the player wishes to use another lifeline , the resultant values displayed will be same as when flag is 2, ie the program shows all the available lifelines other than 50-50.

- Suppose at a particular time the value of flag is not same as its default value (let's say 14), then the program eliminates lifelines as follows: -

- It finds the value of flag in terms of its default values, like 14 can be calculated as sum of 2+12.
- This will include the conditions of flag (when it is 2 as well as 12), and provide with the available lifelines , ie 50-50 and audience poll will be eliminated.

### **9. Fiftyfifty(int, int)**

In this function, the question is called and then one wrong option is displayed along with the right option (which is called using the if-else condition statement).

### **10. Expert(int, int, char)**

This function either provides with the right answer or suggests the player two possible options according to the difficulty of the question.

### **11. Doubledip(int, int, int)**

This function gives the player two chances to choose the correct answer for a particular question. If the player still answers the question wrongly then wrong() function is invoked.

### **12. Audience(int)**

This function shows the audience polling result for a particular question.

### **13. Play(char)**

This function generates random question for a particular player which proceeds only when the player has answered a particular question correctly.

It also calls the lifeline function and assigns a new value for flag. There are 15 questions in total a player has to answer correctly in order to become a winner.

# Output

```
-----
:  WELCOME TO KAUN BANEGA CROREPATI  :
-----

Program by Pratyush Garg, Subham Kumar, Neelaksh Singh
Class XII B

Enter your name to start: subham_
```

Start-up  
screen which  
inputs name

```
Welcome Subham

-----
:  WELCOME TO KAUN BANEGA CROREPATI  :
-----

Choose from the menu:

1.Play the Game
2.Hall of fame
3.Rules of the Game
4.Credits
5.Exit
```

Menu screen

```

  _ _ _ _ _
 | | | | |
 | | | | |
 | \ | | | |
 | \ | | | |

1. The quiz contains 15 questions
2.The prize structure is as follows:
Q.1: 1,000      Q.2: 2,000      Q.3: 3,000
Q.4: 5,000      Q.5: 10,000    ** Q.6: 20,000
Q.7: 40,000     Q.8: 80,000     Q.9: 1,60,000
Q.10: 3,20,000 **      Q.11: 6,40,000  Q.12: 12,50,000
Q.13: 25,00,000 Q.14: 50,00,000 Q.15: 1,00,000

If you give a wrong answer at any question you will lose your money,
and if you quit you will retain your money.
The question marked with ** are flag questions, crossing them
will ensure that you will take home atleast that amount
You have four lifelines:
1.50-50: Two wrong options will get eliminated
2.Expert Advice: Our special expert will help in answering the question
3.Double Dip: You will get two chances to give the right answer
4.Audience Poll: Our esteemed audience will help you in answering the question_
```

Rules screen

-----  
: Kaun Banega Crorepati :  
-----

Question 1: Which keyword is used to handle the exception ?

- A. try
- B. throw
- C. catch
- D. none of these
- E. Use a Lifeline
- F. Quit the game

## First question

```
-----
! Kaun Banega Crorepati !
-----

Question 1: The const feature can be applied to:

A. an identifier
B. an array
C. an array argument
D. All of these
E. Use a Lifeline
F. Quit the game
```

## Screen illustrating Random Effect of questions



Congratulations! You win Rs.1000

**Correct  
Answer  
Screen for first  
question**

Your available lifelines are:

1. 50-50
2. Expert Advice
3. Double dip
4. Audience poll

-

**Lifelines  
screen**

-----  
! Kaun Banega Crorepati !  
-----

Question 2: What does a default header file contains ?

- A. prototype
- C. declaration
- E. Use a lifeline
- F. Quit the game

**50-50 in  
effect: Notice  
that two  
wrong options  
have been**

Your available lifelines are:

2. Expert Advice
3. Double dip
4. Audience poll

**Lifeline screen  
after using 50-  
50, it will not  
accept 1, a  
similar thing  
will happen  
after using  
any lifeline**

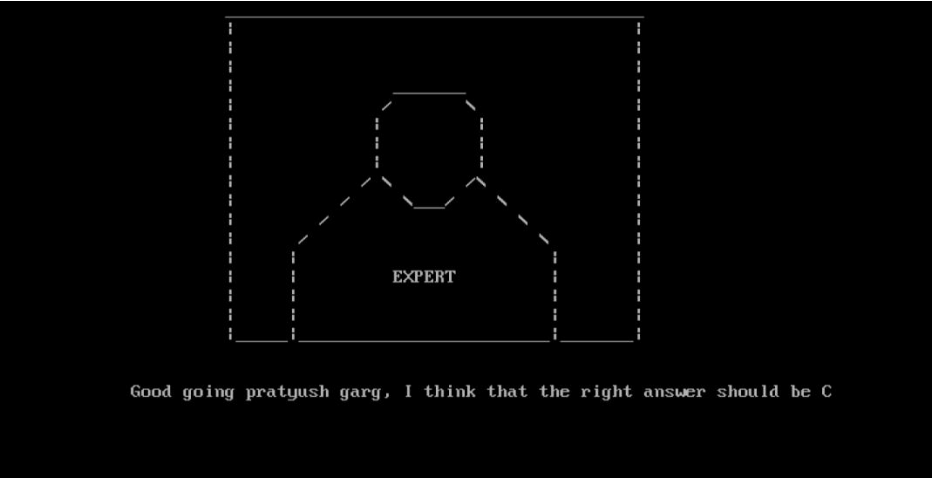
Sorry! That was the wrong answer. The correct answer is: B  
You take home Rs. 10,000\_

**Wrong answer  
output after  
question 5, it  
displays "You  
take home Rs.  
10,000", because  
you passed a**

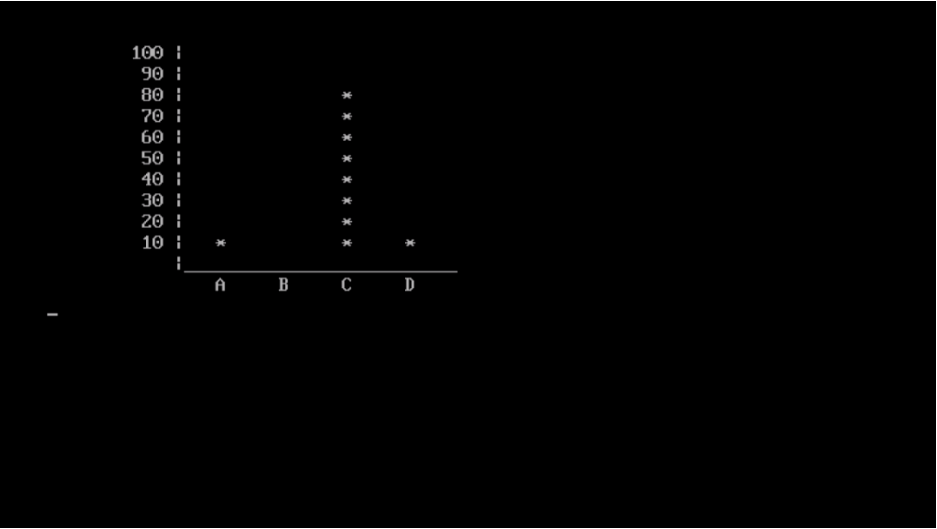




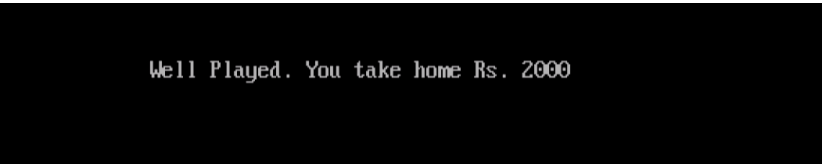
Similarly, correct answer output for question 5



Expert advice



Audience poll



“Quit the Game” output for question 3

```
kjhg      The following people used our project and this was their progress:
0
MUJIT    10000
SHARAT   2000
SUMIT    3000
```

-

## Hall of fame

## **Scope of the Project**

1. We wish to add a timer to the questions as in the original KBC, as we cannot do it now.
2. We wish to possibly add a voiceover of everyone's favorite host in the future and improve the UI with sounds and graphics.