Hangman Game Report

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Source Code:

```c
#include <stdio.h>

#include <stdlib.h>

#include "english_words.h"

#include <time.h>

#include <string.h>


#define Max_Trial 10


void line()

{

    printf("\n--------------------------------------\n");

}


int Check_guessed_char(char *correct_word,char *hidden_word,char guessed_char)

{

    int flag=0;

    int word_length = strlen(correct_word);

    int i;

    for(i=0;i<word_length;i++)
```

```c
    {
      if(correct_word[i]==guessed_char)

      {
        flag++;

        hidden_word[i]=guessed_char;

      }

    }

    return flag;

}


int Trial(int *trial,char *correct_word,char *hidden_word)

{

    printf("You Trials = %d\n",*trial);

    printf("The Word is %s\n",hidden_word);

    char guessed_char;

    printf("Guess and Type the char here : ");

    scanf(" %c",&guessed_char);

    if(Check_guessed_char(correct_word,hidden_word,guessed_char))

    {

      return 1;

    }

    else

    {

      return 0;

    }

}

int Check_Hidden_Word(char *hidden_word)

{

    int word_len=strlen(hidden_word);
```

```c
        int i=0;

        for(i=0;i<word_len;i++)

        {

          if(hidden_word[i]=='_')

          {

            return 1;

          }

        }

        return 0;

    }


    int main()

    {

        int i;

        printf("Developer Name : Ayman Mohamed Nabil\n");

        printf("Hangman Game Project");

        line();


        int trials=Max_Trial; // Your trials


        char correct_word[20];

        srand((unsigned int)time(NULL));

        int x = rand() % (sizeof(englishWords)/sizeof(englishWords[i]));


        strcpy(correct_word,englishWords[x]);


        int num_word = strlen(englishWords[x]);


        char hidden_word[num_word];
```

```c
for(i=0;i<num_word;i++)
{
  hidden_word[i]='_';
}
hidden_word[i]='\0';

while(trials)
{
  if(!Trial(&trials,correct_word,hidden_word))
  {
    trials--;
  }
  if(!Check_Hidden_Word(hidden_word))
  {
    break;
  }
}
if(trials==0)
{
  line();
  printf("Oops , Man is Executed");
  printf("\nThe Word was %s",correct_word);
  line();
}
else
{
  line();
  printf("WIIIIIN");
```

```c
        printf("\nThe Word was %s",correct_word);

        line();

    }



    return 0;
}
```

Test Cases:

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Hangman Game Project

You Trials = 10

The Word is _____

Guess and Type the char here : i

You Trials = 10

The Word is _____i__

Guess and Type the char here : o

You Trials = 9

The Word is _____i__

Guess and Type the char here : e

You Trials = 9

The Word is e_____i__

Guess and Type the char here : t

You Trials = 9

The Word is e_____ti__

Guess and Type the char here : a

You Trials = 9

The Word is e___a_ti__

Guess and Type the char here : n

You Trials = 9

The Word is en__antin_

Guess and Type the char here : c

You Trials = 9

The Word is enc_antin_

Guess and Type the char here : y

You Trials = 8

The Word is enc_antin_

Guess and Type the char here : h

You Trials = 8

The Word is enchantin_

Guess and Type the char here : g

WIIIIIN

The Word was enchanting

Process returned 0 (0x0)   execution time : 25.640 s

Press any key to continue.

....

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You Trials = 10

The Word is _____

Guess and Type the char here : k

You Trials = 9

The Word is _____

Guess and Type the char here : o

You Trials = 9

The Word is ___o__

Guess and Type the char here : e

You Trials = 9

The Word is _e_o__

Guess and Type the char here : d

You Trials = 9

The Word is _e_od_

Guess and Type the char here : m

You Trials = 9

The Word is me_od_

Guess and Type the char here : i

You Trials = 8

The Word is me_od_

Guess and Type the char here : l

You Trials = 8

The Word is melod_

Guess and Type the char here : y

WIIIIIN

The Word was melody

Process returned 0 (0x0)   execution time : 14.007 s

Press any key to continue.

....

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Hangman Game Project

You Trials = 10

The Word is _____

Guess and Type the char here : k

You Trials = 10

The Word is ___k__

Guess and Type the char here : e

You Trials = 10

The Word is ___ke_

Guess and Type the char here : q

You Trials = 9

The Word is ___ke_

Guess and Type the char here : k

You Trials = 9

The Word is ___ke_

Guess and Type the char here : o

You Trials = 9

The Word is _o_ke_

Guess and Type the char here : l

You Trials = 8

The Word is _o_ke_

Guess and Type the char here : t

You Trials = 7

The Word is _o_ke_

Guess and Type the char here : r

You Trials = 6

The Word is _o_ke_

Guess and Type the char here : e

You Trials = 6

The Word is _o_ke_

Guess and Type the char here : q

You Trials = 5

The Word is _o_ke_

Guess and Type the char here : a

You Trials = 4

The Word is _o_ke_

Guess and Type the char here : s

You Trials = 3

The Word is _o_ke_

Guess and Type the char here : e

You Trials = 3

The Word is _o_ke_

Guess and Type the char here : l

You Trials = 2

The Word is _o_ke_

Guess and Type the char here : k

You Trials = 2

The Word is _o_ke_

Guess and Type the char here : t

You Trials = 1

The Word is _o_ke_

Guess and Type the char here : r

Oops , Man is Executed

The Word was monkey

Process returned 0 (0x0)   execution time : 19.485 s

Press any key to continue.