Quiz 5 Version F

Due No due date

Points 8

Questions 3

Available after Nov 21 at 3:30pm

Time Limit None

Allowed Attempts Unlimited

Instructions

Quiz for Lecture 5: Recursion

7 points required to pass

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	less than 1 minute	0 out of 8 *

^{*} Some questions not yet graded

Score for this attempt: 0 out of 8 *

Submitted Nov 28 at 2:30pm

This attempt took less than 1 minute.

Question 1

Not yet graded / 2 pts

Write a *recursive* implementation of the function **put_str_rev**, that takes a C-string as its argument, and that displays the characters in the C-string to the screen *in reverse order*.

For example, this code in main:

char a[10] = "hello";

put_str_rev(a);

```
would display:
olleh

void put_str_rev(const char *s)
{
    // your code goes here
}

Your Answer:
fdas

if (*s) {
    put_str_rev(s + 1);
    cout << *s;</pre>
```

Question 2

}

Not yet graded / 4 pts

Define a function named **put_int_bits** that takes an **int** value as its argument, and that displays the 32-bit binary representation of that **int** value to **cout**:

- 7 000000000000000000000000000111
- 13 000000000000000000000000001101

- -7 1111111111111111111111111111001

put_int_bits returns no value. It may be useful to have put_int_bits call
one or more helper functions. At least one function in your implementation
should be a recursive function.

Your Answer:

```
void put_int_bit_n(unsigned i, unsigned n)
{
    if (n) {
        put_int_bit_n(i / 2, n - 1);
        cout << i % 2;
    }
}
void put_int_bits(int i)
{
    put_int_bit_n(i, 32);
}</pre>
```

Question 3

Not yet graded / 2 pts

N! (N factorial) can be defined iteratively as:

```
or recursively as:
0! = 1
N! = N * (N-1)!, for N > 0
Write a recursive implementation of the function factorial, that takes a
non-negative integer as its argument N and returns N!
unsigned factorial(unsigned N)
{
     // this is the code you have to write
}
Your Answer:
   if (N == 0)
       return 1;
   return N * factorial(N - 1);
```

Quiz Score: 0 out of 8