C-Day3-Test

Test 1/10 (Duration 10 minutes)

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Saving...

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* Indicates required question

Which of the following is NOT part of the compilation process?

◯ Lexical analysis

◯ Object code generation

🔘 Memory allocation of variables

◯ Syntactical analysis

Clear selection

USN *

thank you

What part of memory is used for dynamic memory allocation in C?

○ Static and global data segment

○ Code area

○ Stack area

◉ Heap area

Clear selection

Which of the following language tool is most suitable to solve the problem of checking if a number is Palindrome?

◉ use while loop

○ use do-while loop

○ use arrays and strings

○ use for loop

○ use recursive function

Clear selection

What is the time complexity of the following code?

```
int i = 1;
while (i <= n) {
    printf("%d ", i);
    i *= 2;
}
```

○ O(n²)

○ O(n log n)

⦿ O(log n)

○ O(n)

<div align="right">Clear selection</div>

In the function call stack, which of the following registers typically points to the current instruction being executed?

⦿ Program Counter (PC)

○ Stack Pointer (SP)

○ Instruction Register (IR)

○ Frame Pointer (FP)

<div align="right">Clear selection</div>

What is the purpose of the Stack Pointer (SP) in a function call stack?

○ To point to the current function's stack frame

○ To store the return address of functions

◉ It points to the top frame in the stack

○ To hold local variables

Clear selection

What file extension is typically associated with object code? Choose all that apply.

☑ .o

☑ .exe

☐ .obj

☐ .c

Name *

Ushhhhhhhh, how many times you will askk, I v

What is the time complexity of the following code snippet?

```
for (int i = 0; i < n; i++) {
    for (int j = 0; j < n; j++) {
        // Some constant time operation
    }
}
```

○ O(n)

○ O(n³)

○ O(n log n)

◉ O(n²)

Clear selection

Which memory segment holds static, local variables?

○ Static and global data segment

○ Code area

○ Heap area

◉ Stack area

Clear selection

Which stage of a program includes both lexical analysis and syntactic analysis?

○ Linking

⦿ Compilation

○ Pre-processing

○ Loading

Clear selection

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