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This document will outline the functionality of each .asm file.

Part1.asm:

1. Convert the following C program to an x86 assembly program.

```
int a = 10;
int b = 20;
int *eax = &a; //reference
int *ebx = &b; //reference
b += a;
*eax = *eax + *ebx; //dereference
printf("eax points to value: %d\n", *eax);
```

Part2.asm

Write an x86 assembly program that conducts the following using the stack and stack operations (e.g., push, pop).

- 1. Computes 10 + 6*12 (4+15)
- 2. Prints the result to standard output using printf

Part3.asm:

 Write an x86 assembly program that declares two string variables (str1 and str2), copies str1 to str2, and prints str2. The program should accomplish the same as the C code below without using the strcpy function.

```
char str1[] = "ABCDEF";
char str2[] = "XYZ123";
strcpy(str2, str1);
printf("str2 = %s\n", str2);
```

Part4.asm

Write an x86 assembly program that conducts the following.

- 1. Uses scanf to prompt the user for an integer value in a hexadecimal format.
- 2. Reverses the 4 bytes of the integer.
- 3. Prints the reversed integer.