A.

When reading the instructions step by step,

```
mov 0x8(\%ebp),\%eax //has integer i mov 0xc(\%ebp),\%ecs //has a variable called bp lea (\%eax,\%eax,4),\%eax //tells us to perform: (4*i) + i = 5i add 0x4(\%ecx,\%eax,4),\%eax //tells us to perform: 20i + bp + 4 mov 0xb8(\%ecx),\%edx //has a value of 184
```

It calls add and mov again with the values and then pops them,

```
add (%ecx),%edx
mov %edx, 0x8(%ecx, %eax, 4)
pop %ebp
```

Based on this observation, we take the formula and perform,

```
(184-4)/20 = 9
```

Thus giving us the value of CNT = 9

B.

Based on the instructions we create the struct file,

```
typedef struct
{
     int idx;
     int x[4];
}STRUCT;
```