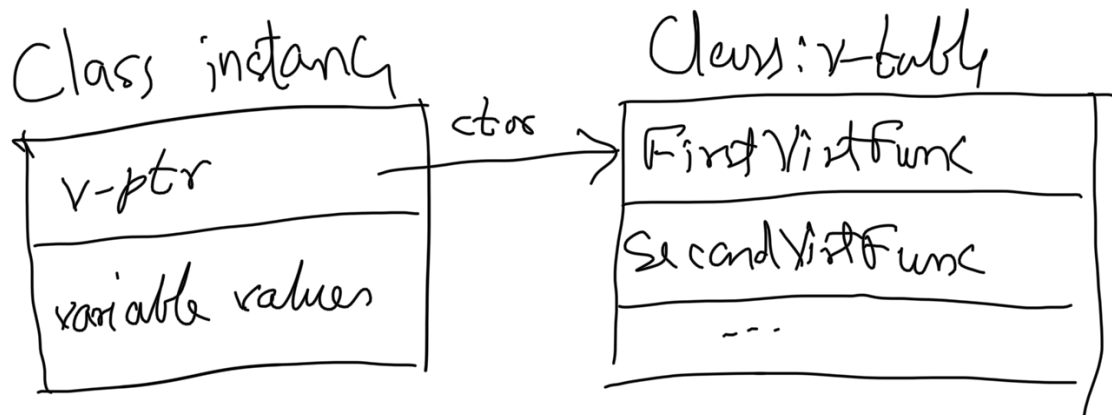


DAC 0521 MET-M Writeup Session - 15

Class is subtype of T



Action(instance);

```
void Action(T& a) //rdi = a
```

```
{
```

```
    a.NonVirtFunc();
```

```
    // call T::NonVirtFunc # direct call to specified function
```

```
    a.FirstVirtFunc();
```

```
    // mov rax, [rdi]      #get v-ptr of instance addressed by rdi
```

```
    // mov rax, [rax]      #get FirstVirtFunc from v-table addressed by rax
```

```
    // call rax            #dispatch call to function in rax
```

```
    a.SecondVirtFunc();
```

```
    // mov rax, [rdi]      #get v-ptr of instance addressed by rdi
```

```
    // mov rax, [rax+8]    #get SecondVirtFunc from v-table addressed by rax
```

```
    // call rax            #dispatch call to function in rax
```

```
}
```