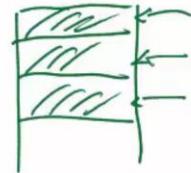
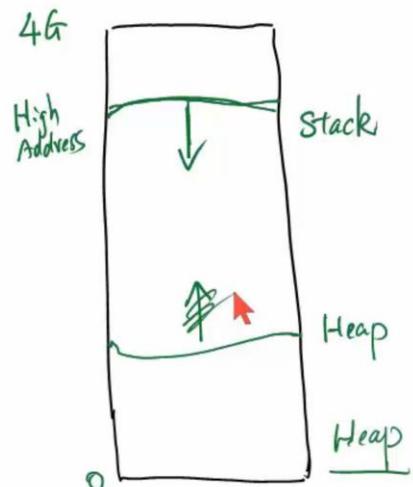


Memory Layout

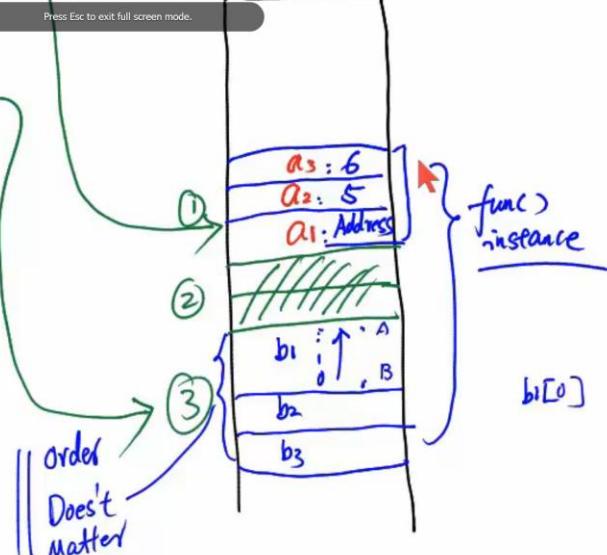


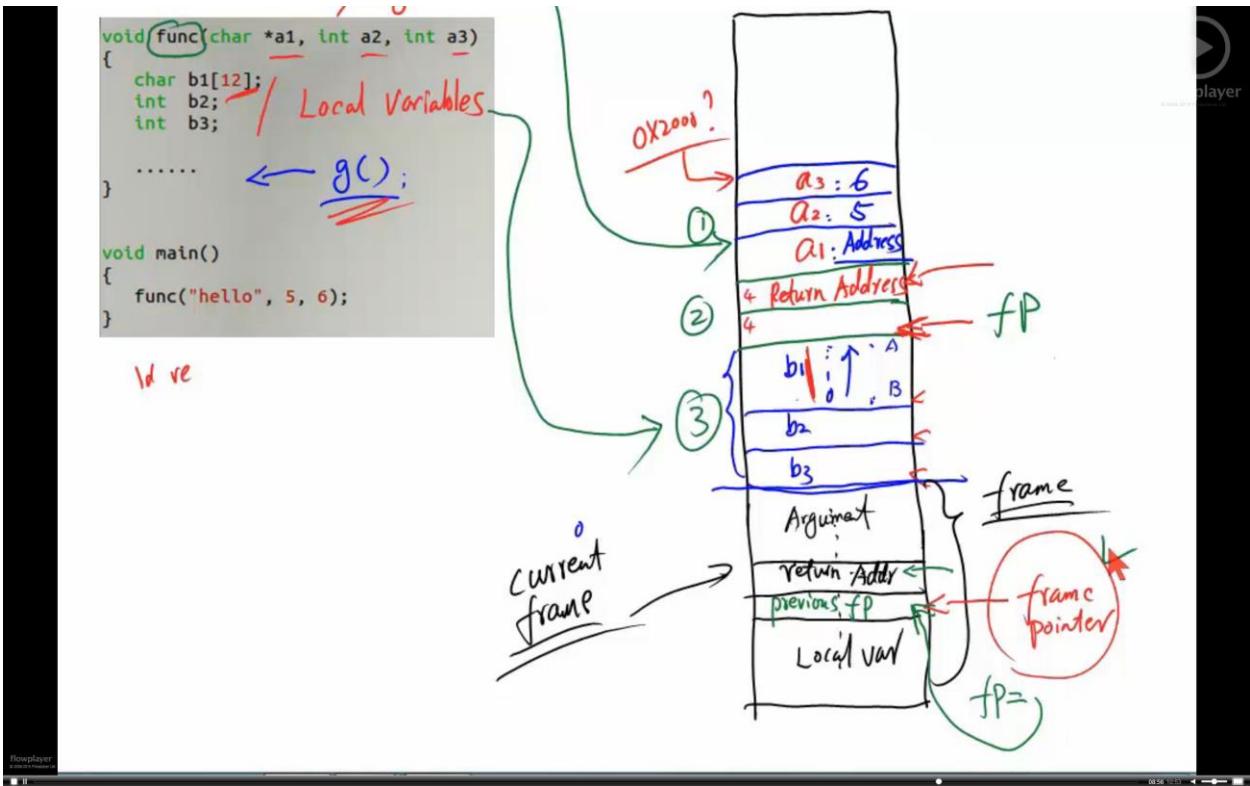
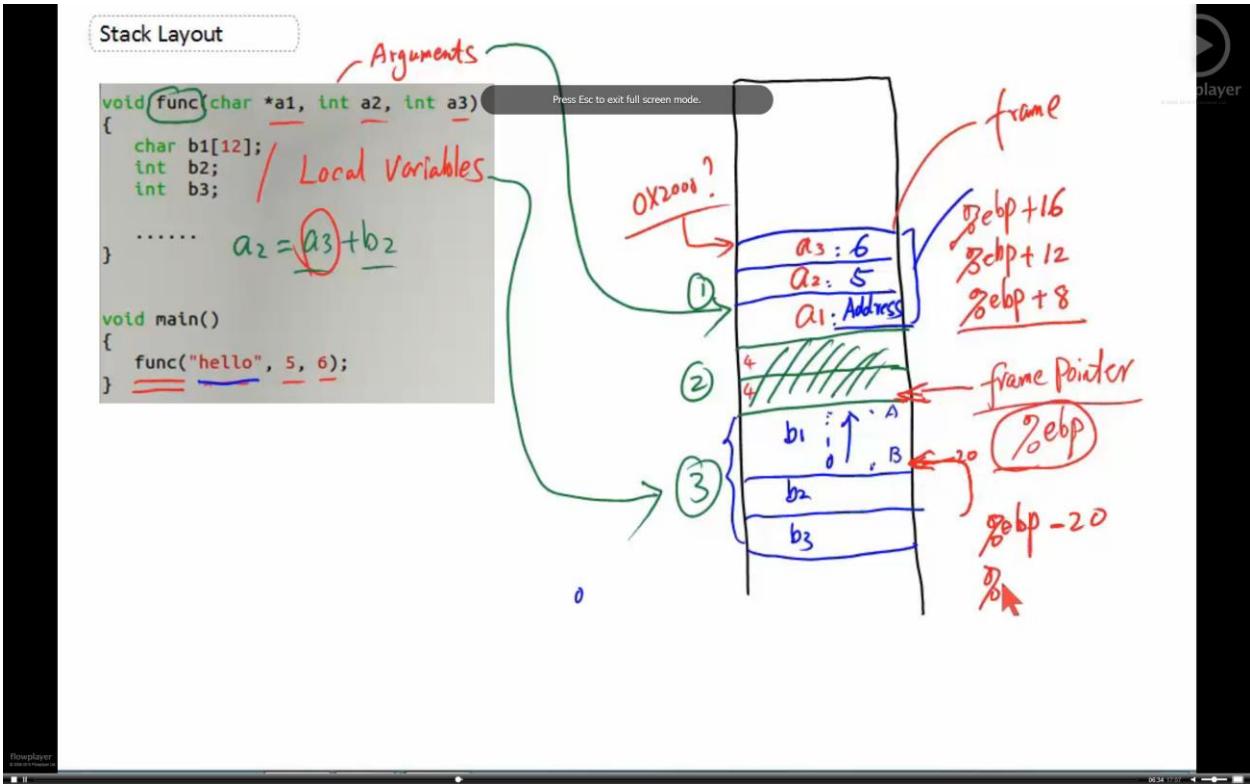
Stack Layout

Arguments
Local Variables

```
void func(char *a1, int a2, int a3)
{
    char b1[12];
    int b2;
    int b3;
}

void main()
{
    func("hello", 5, 6);
}
```





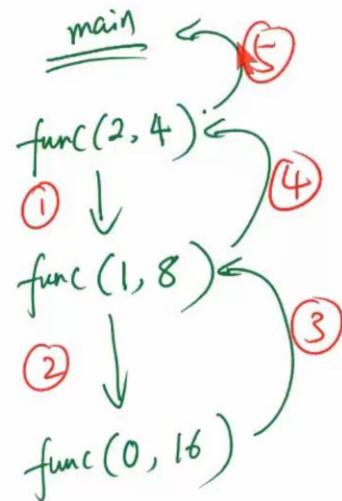
Exercise

Please draw the stack layout for each of the invocation of func()

```
void func(int a, int b)
{
    int c;

    c = 2*b;
    printf("a is: %d -- b is: %d\n", a, b);
    if (a<=0) return;
    func(a-1, c);
    return;
}

void main()
{
    func(2,4);
}
```



```
int c;

c = 2*b;
printf("a is: %d -- b is: %d\n", a, b);
if (a<=0) return;
func(a-1, c); // Address 0x1000
return; // Address 0x2000

void main()
{
    func(2,4); // Address 0x1000
}
```

