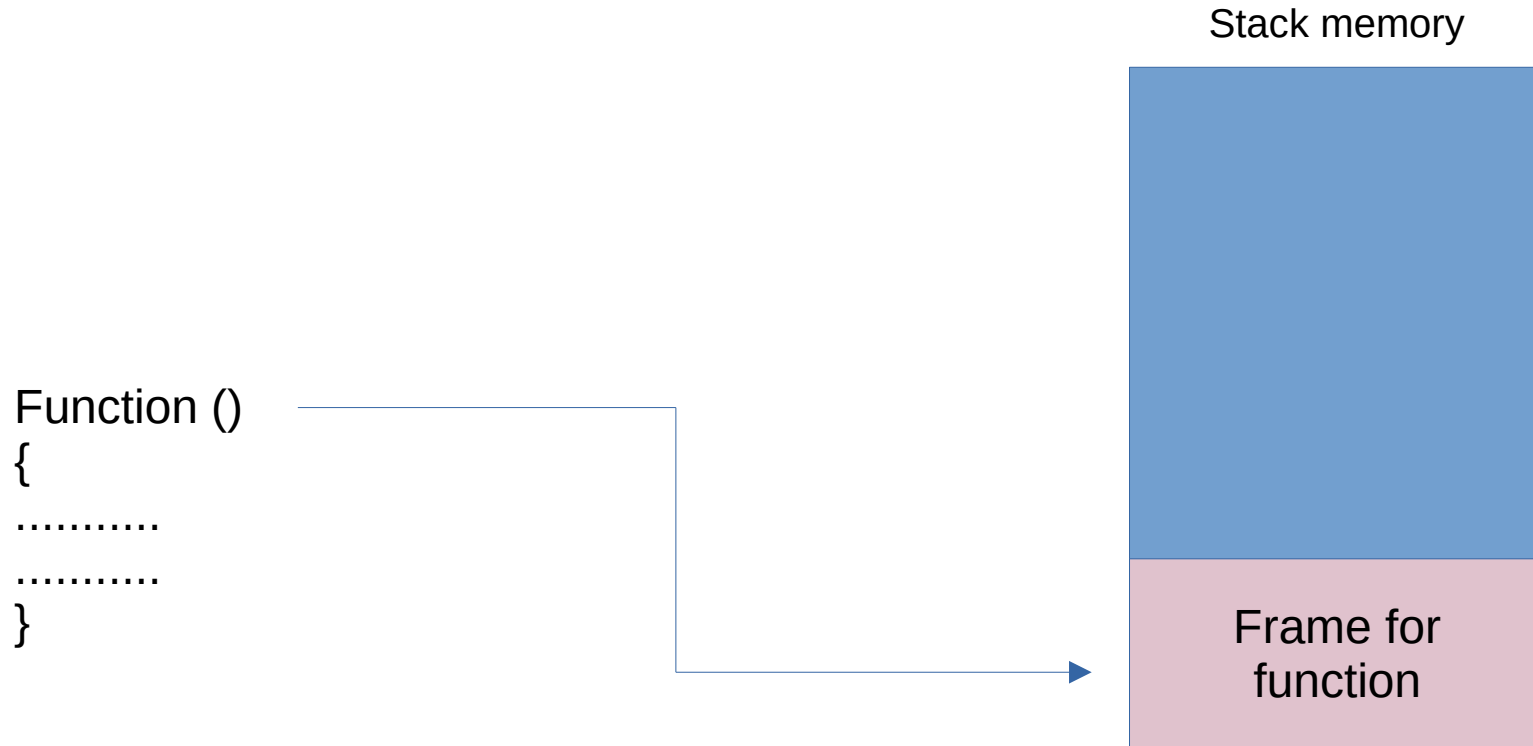


Understanding stack frames

Stack frames



Creation of stack frames for functions

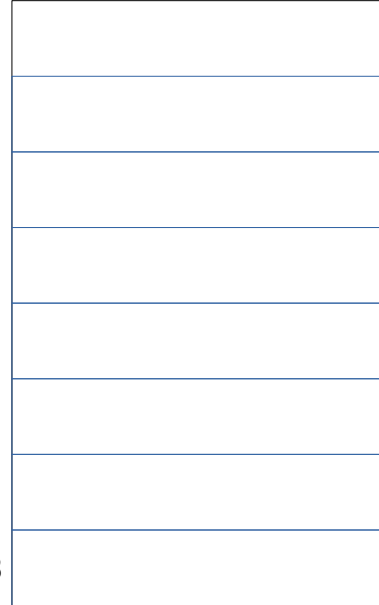
Example :

```
function ()  
{  
  
    int a=4;  
  
}
```

Creation of stack frames for functions

```
Stack frame creation → function ()  
{  
  
    int a=4;  
  
}
```

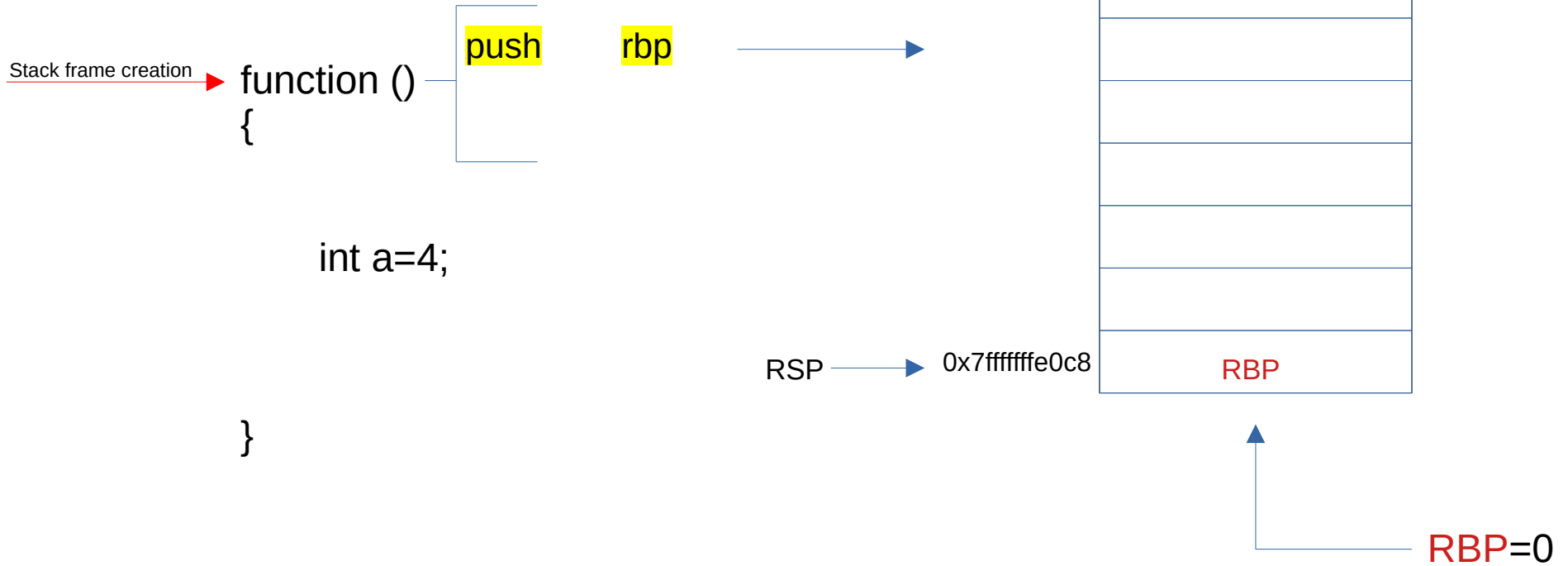
Stack memory



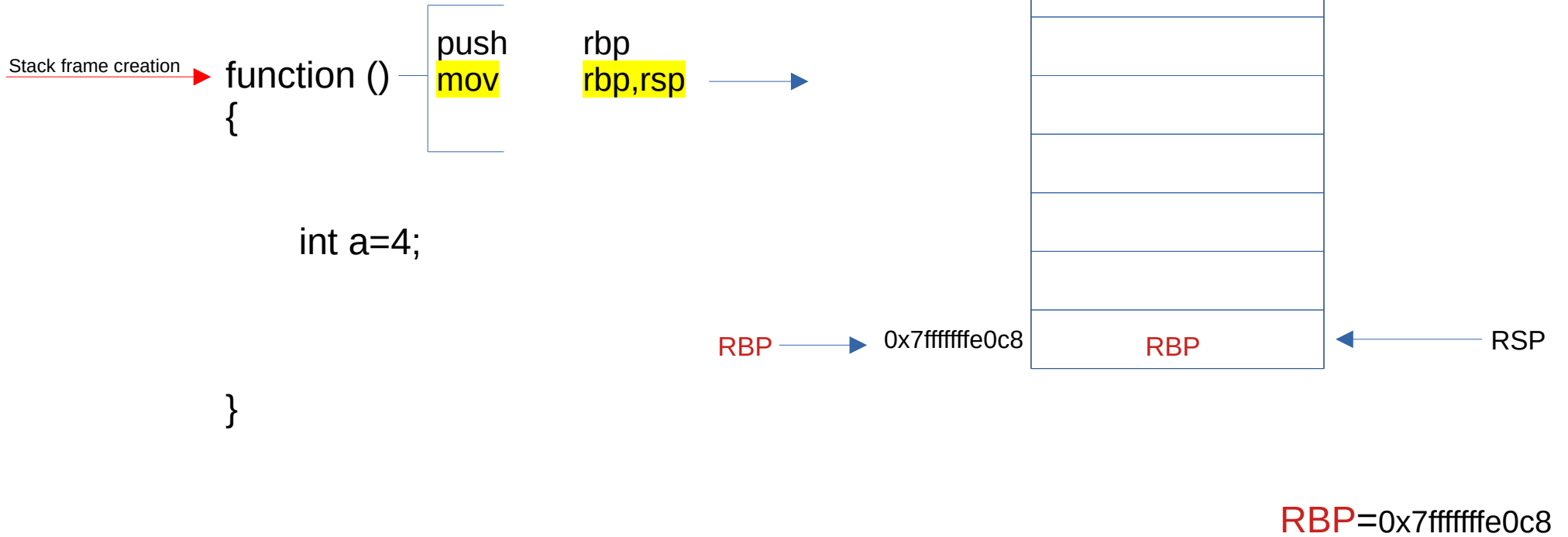
RSP → 0x7fffffff0c8

RBP=0

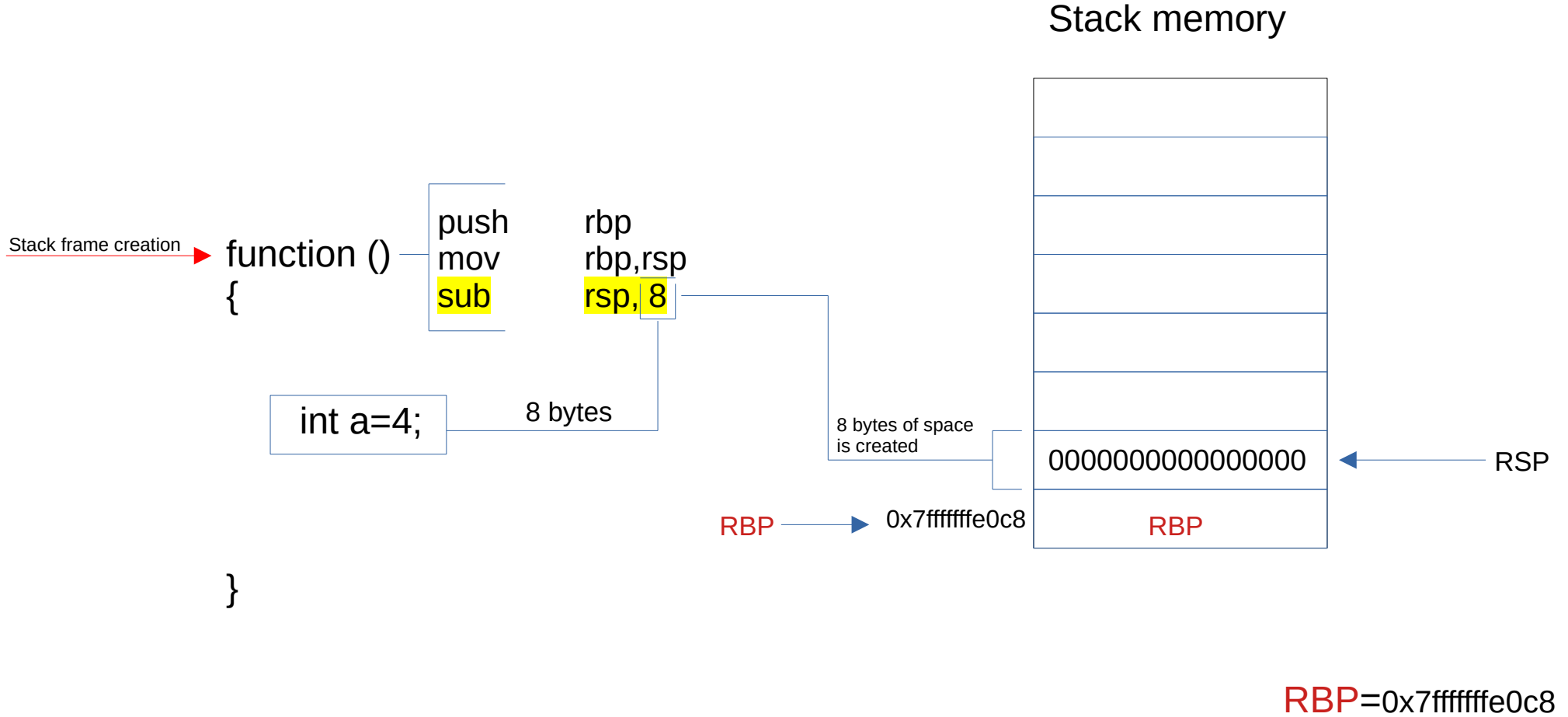
Creation of stack frames for functions



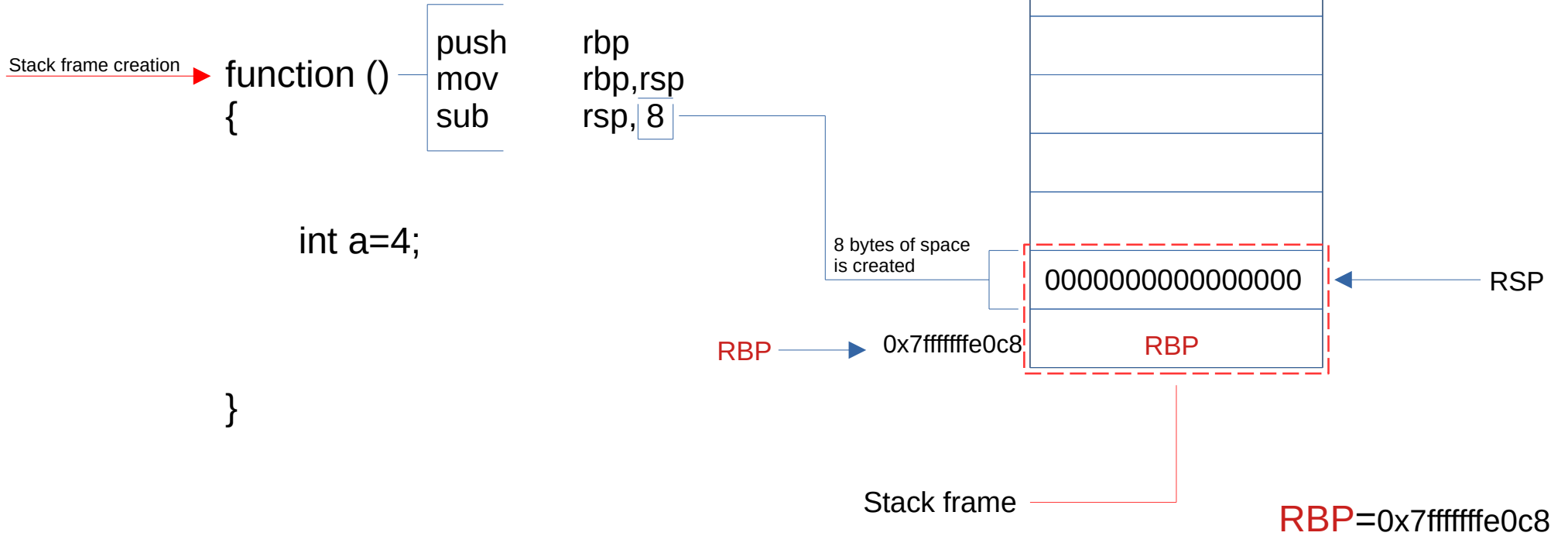
Creation of stack frames for functions



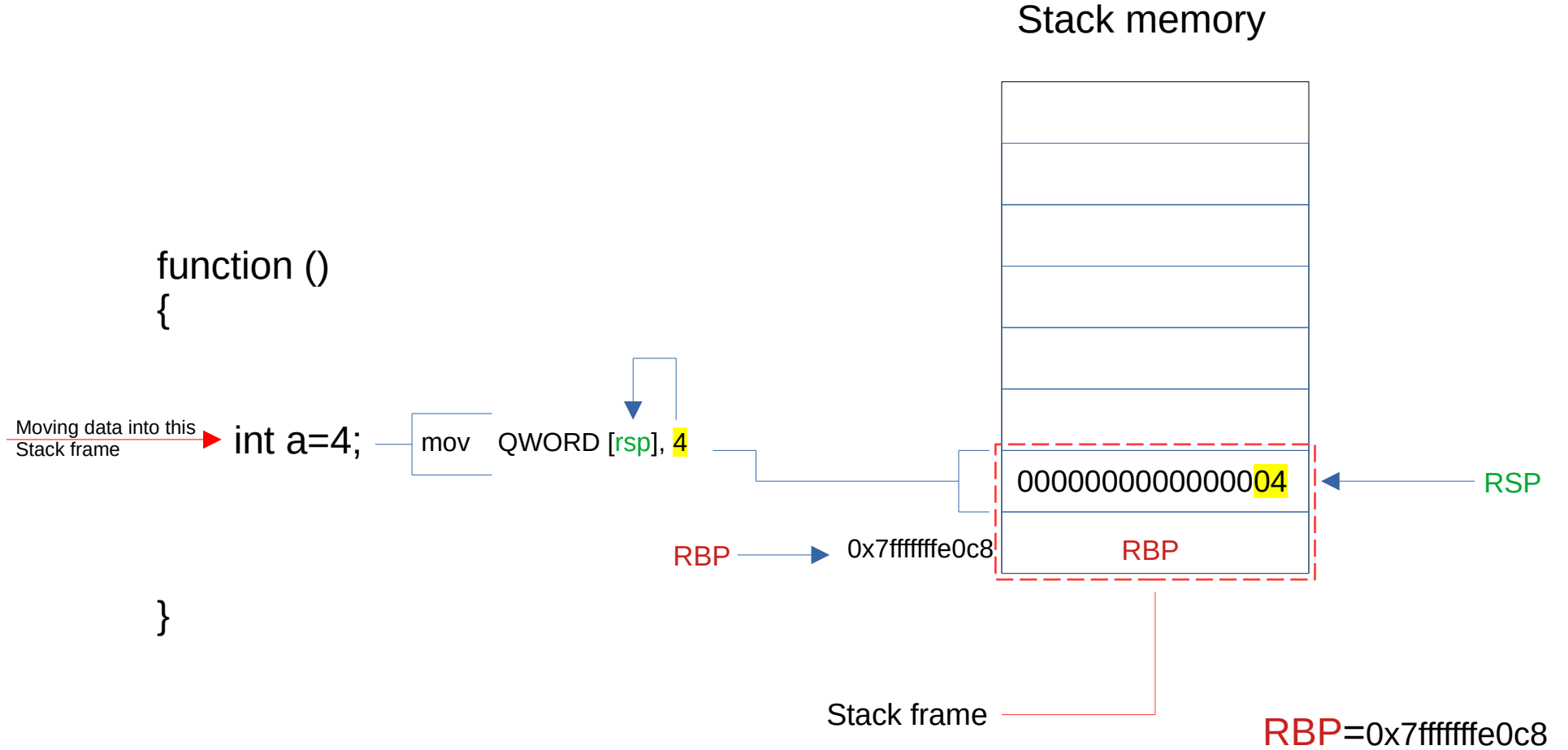
Creation of stack frames for functions



Creation of stack frames for functions



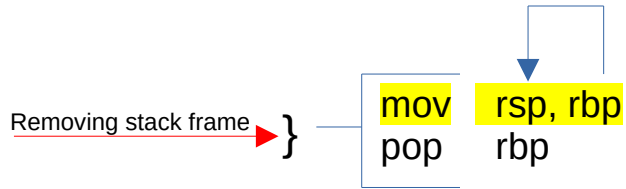
Creation of stack frames for functions



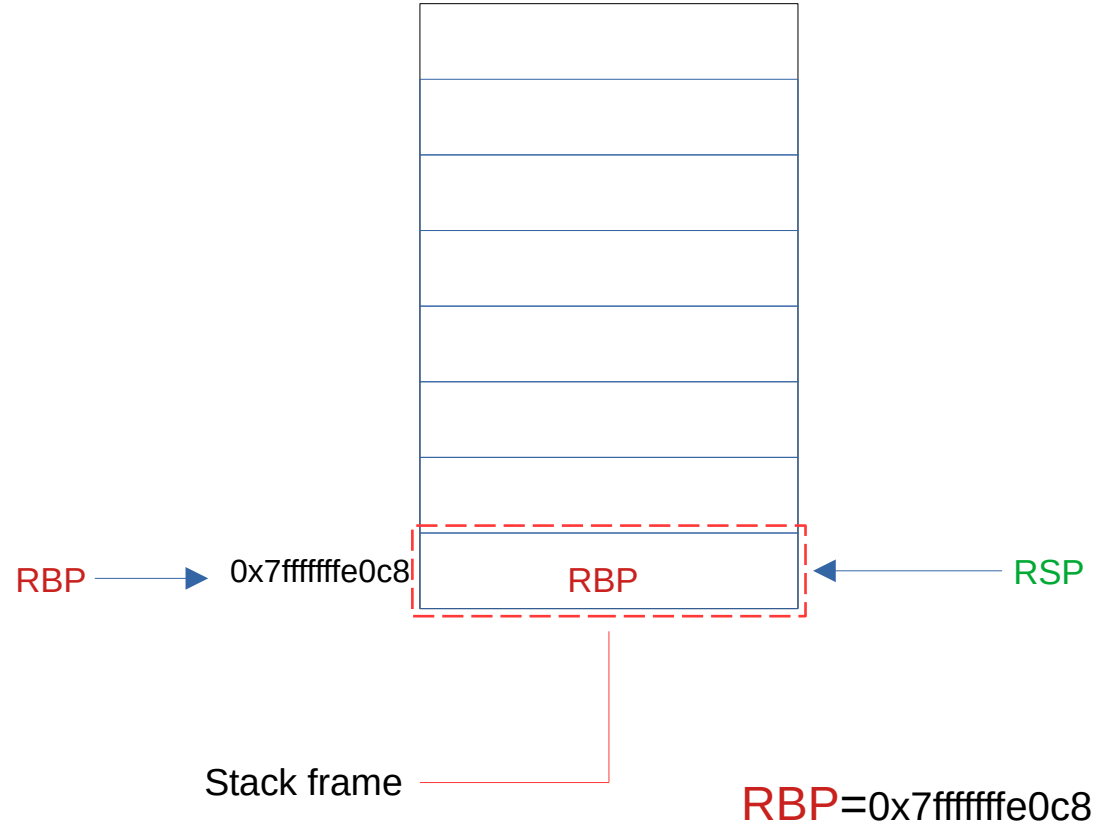
Creation of stack frames for functions

```
function ()  
{
```

```
    int a=4;
```



Stack memory



Creation of stack frames for functions

```
function ()  
{
```

```
    int a=4;
```

Removing stack frame →

```
} — mov    rsp, rbp  
pop    rbp
```

Stack memory



RSP 0x7fffffff0c8

Now stack frame removed

RBP=0