

Introduction Pointer and Memory Lab

Analyze the main() program and the function definition to determine what the program accomplishes and how its achieved. Do this by mentally stepping through each line of program code while filling in and updating the main() and oops() Variable Values fields in the Analysis Variable Table below. Start at the left and lightly cross out each old value after an updated value is generated.

main() Variable Names	main() Variable Values	main() Variable Addresses
a		1000
b		2000
ptr		3000
oops() Variable Names	oops() Variable Values	oops() Variable Addresses
b		5000
c		6000
one		7000
two		8000

Analysis Variable Table

```
#include "stdio.h"
```

```
//
```

```
void oops (int *one, int *two);
```

```
//
```

```
void main(void)
```

```
{
```

```
    int a, b = 5, *ptr = &a;
```

```
    a = 2;
```

```
    b = *ptr * 10;
```

```
    *ptr = a + b;
```

```
    oops(ptr, &b);
```

```
    oops(&a, &b);
```

```
}
```

```
//
```

```
void oops (int *one, int *two)
```

```
{
```

```
    int b, c;
```

```
    b = *one;
```

```
    c = *two;
```

```
    *one = c;
```

```
    *two = b;
```

```
}
```

```
//
```