

# Assignment 1

*After executing the following commands*

1. what value will  $r11$  have?

```
00 E3A0001D MOV r0, #0x1D
04 E3A01008 MOV r1, #0x8
08 E081B000 ADD r11, r1, r0
```

1. 0x00000025
2. 0x0000032E
3. 0x00000172
4. 0x0000001B
5. 0x00000001
6. other

2. what value will  $r3$  have?

```
00 E3A00007 MOV r0, #0x7
04 E3A0100E MOV r1, #0xE
08 E0413000 SUB r3, r1, r0
```

1. 0x0000002A
2. 0x00000001
3. 0x00000007
4. 0x00000002
5. 0x0000000D
6. other

3. what value will  $r3$  have?

```
00 E3A0000B MOV r0, #0xB
04 E3A01009 MOV r1, #0x9
08 E0020091 MUL r2, r1, r0
```

1. 0x00000063
2. 0x000000B0
3. 0x00000003
4. 0x0000005B
5. 0x000013B9
6. other

4. what value will  $r0$  have?

```
00 E3A01005 MOV r1, #0x5
04 E0000191 MUL r0, r1, r1
08 E3A02004 LDR r2, =4
0c E0000092 MUL r0, r2, r0
10 E3A02003 LDR r2, =3
14 E0020291 MUL r2, r1, r2
18 E0800002 ADD r0, r0, r2
```

1. 0x00000002
2. 0x00000073
3. 0x0000175C
4. 0x0000007A
5. 0x00000B3B
6. other