

Assignment 3

After executing the following commands, what values will the flags have?

Flags are arranged in the form of NZCV. N – negative, Z – equal, C – unsigned greater or equal, V – overflow.

1. Code:

```
00 E3A00205 MOV r0, #0x50000000
04 E3A01103 MOV r1, #0xC0000000
08 E0512000 SUBS r2, r1, r0
```

1. 0x4
2. 0x6
3. 0x2
4. 0x5
5. 0x3
6. other

2. Code:

```
00 E3A00102 MOV r0, #0x80000000
04 E3A01102 MOV r1, #0x80000000
08 0512000 SUBS r2, r1, r0
```

1. 0x3
2. 0xA
3. 0x1
4. 0x6
5. 0x8
6. other

3. Code:

```
00 E3E00003 MOV r0, #0xFFFFFFFF
04 E3A01020 MOV r1, #0x20
08 E0512000 SUBS r2, r1, r0
```

1. 0x0
2. 0xA
3. 0x4
4. 0x9
5. 0x2
6. other

4. Code:

```
00 E3A00020 MOV r0, #0x20
04 E3A01000 MOV r1, #0
08 E0512000 SUBS r2, r1, r0
```

1. 0x8
2. 0x2
3. 0x1
4. 0xB
5. 0x0
6. other