Assignment 2

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 E3A00020 MOV r0,#0x20
- 04 E3A01020 MOV r1,#0x20
- 08 E0512000 SUBS r2,r1,r0
 - 1. 0x0
 - 2. OxA
 - 3. 0x6
 - 4. 0x2
 - 5.0x9
 - 6. other

2. Code:

- 00 E3A00103 MOV r0, #0xC0000000
- 04 E3A0120F MOV r1, #0xF0000000
- 08 E0513000 SUBS r3, r1, r0
 - 1. 0x5
 - 2. 0x2
 - 3. 0x9
 - 4. 0x1
 - 5. 0x6
 - 6. other

3. Code:

- 00 E3A00102 MOV r0, #0x80000000
- 04 E3A01101 MOV r1, #0x40000000
- 08 E0517000 SUBS r7, r1, r0
 - 1. 0x1
 - 2. 0x9
 - 3. 0xD
 - 4. 0xB
 - 5. 0x4
 - 6. other

4. Code:

- 00 E3A0020A MOV r0, #0xA0000000
- 04 E3A0120F MOV r1, #0xF0000000
- 08 E0913000 ADDS r3, r1, r0
- Oc E0432000 SUB r2, r3, r0
 - 1. OxA
 - 2. 0x3
 - 3. 0xC
 - 4. 0x2
 - 5. 0x1
 - 6. other