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Ans. to the Que: No: 1



DIT = 2 (Depth)

NMO = 1 (Number of method override)

NMI = 1 (Number of inherited op)

NMA = 2 (Number of operation added to the inheritance)

$$\therefore SI\% = \frac{DIT \times NMO}{NMO + NMI + NMA} \times 100\%$$

$$= \frac{2 \times 1}{1 + 1 + 2} \times 100\%$$

$$= 50\%$$

Ans to the Que: No: 2

```
Public void hostCity()
```

```
    boolean isTokyo2020 Olympic = true
```

```
    int year = 2020
```

```
    boolean tokyo2020 Olympic Hosted in Japan = false
```

```
    boolean tokyo2020 Olympic Host City undecided = false;
```

```
    for (int i = 0; i < 3; i++) {
```

```
        for (int j = 0; j < 0; j++) {
```

```
            if (i == 2) { - 6
```

```
                if (j == 2) { - 7
```

```
                    tokyo2020 Olympic Host City undecided = true;
```

Japan

```
                }
```

```
            }
```

```
        else if (i == 1) { - 10
```

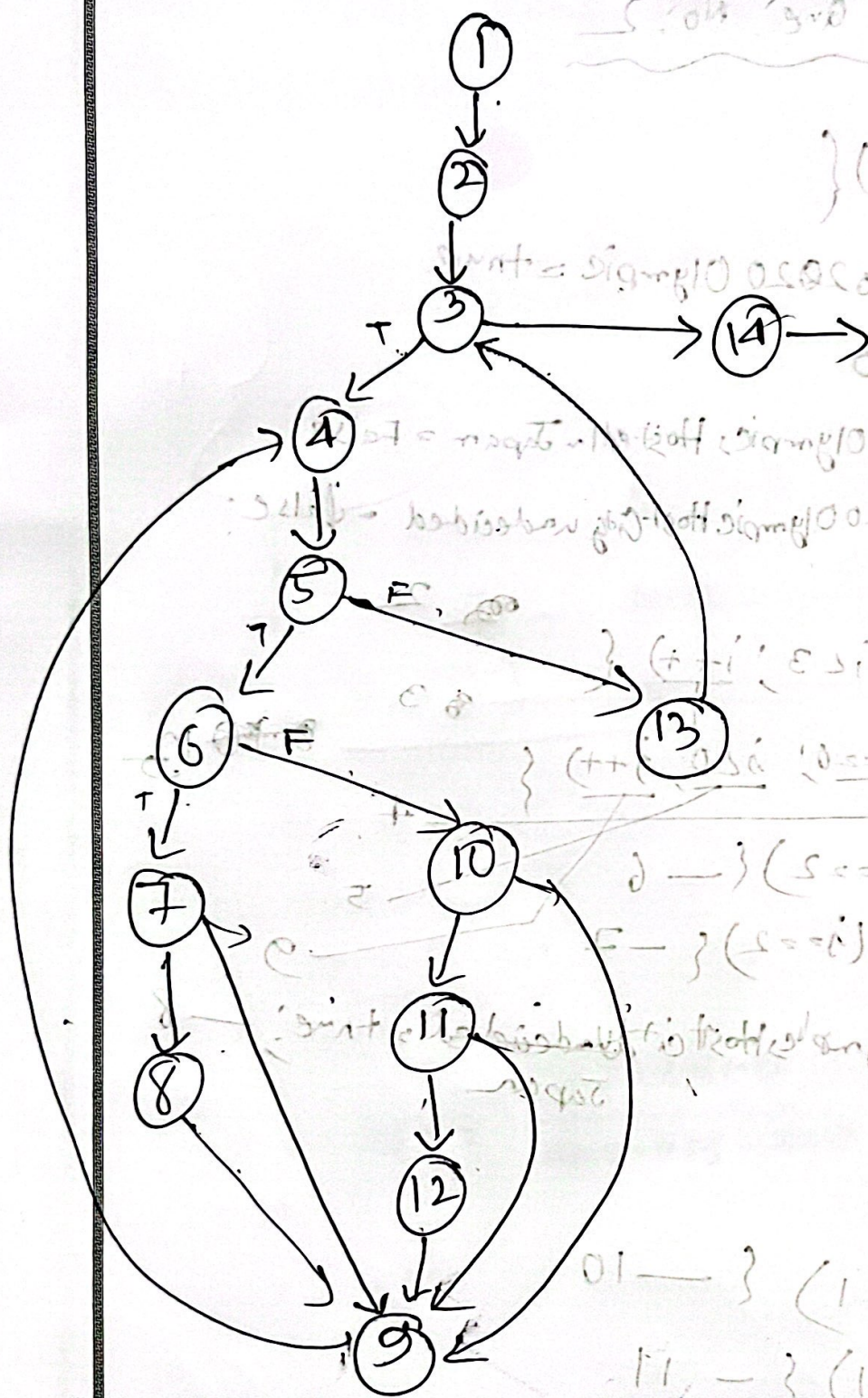
```
            if (j == 1) { - 11
```

```
                tokyo2020 Olympic Host City undecided = true; - 12
```

```
            }
```

```
        }
```

```
    }
```

Ans. to the Que. No. 3

Complexity = ~~edge~~ edge-node + 2.1

$$\geq 10 - 14 + 2$$

$$= 7.$$