

HW 04 OrKom - 13521024_Ahmad Nadil

Practice Problem 3.18

```
short test(short x, short y, short z){
    short val = z + y - x;
    if (z > 5){
        if (y > 2){
            val = x / z;
        }
        else{
            val = x / y;
        }
    }
    else if(z < 3){
        val = z / y;
    }
    return val;
}
```

Practice Problem 3.19

A. $TMP = 2(Tran - TOK) = 2(45-25) = 40$

B. Jika terjadi error (salah prediksi) maka akan terjadi 65 cycle. $(25 + 40)$

Practice Problem 3.21

```
short test (short x, short y){
    short val = y + 12;
    if (x < 0){
        if (x < y){
            val = x * y;
        }
        else{
            val = x | y;
        }
    }
    else if (y > 10){
        val = x / y;
    }
    return val;
}
```