

What Does This Program Do – LOOP

1. 02-03 C2 What Does This Program Do – Nested Loop

43

When the following program is run, what is the final value of X?

```
X = 0
FOR i = 1 TO 4
  FOR j = 1 TO i
    X = X + i * j
    IF X/2 = INT (X/2) THEN X = X/2
  NEXT j
NEXT i
PRINT X
```

2. 03-04 C2 What Does this Program Do – Nested Loop

86

When the following program is executed what is the 9th value to be printed?

```
N=0
FOR J = 1 TO 10
  FOR K = 10 TO J STEP -2
    N = N + J * K
  PRINT N
  NEXT K
NEXT J
```

3. 06-07 C2 What Does this Program Do – Loops

12

After the following program is run how many *'s are printed?

```
FOR i = 1 TO 25 STEP 2
    IF i/2 = INT(i/2) THEN PRINT "*"
NEXT i

FOR j = 15 TO 50 STEP 3
    IF j/3 = INT(j/3) THEN PRINT "*"
NEXT j

END
```

4. 12-13 C2 What Does this Program Do – Loops

47

What is printed when this program is executed?

```
Z = 0
FOR N = 1 TO 100
    IF (N/3) = INT(N/3) THEN Z = Z + 1
    IF (N/5) = INT(N/5) THEN Z = Z + 1
    IF N/3 = INT(N/3) AND N/5 = INT(N/5) THEN Z=Z-1
NEXT N
PRINT Z
END
```