

Answer the following questions and show detailed, incremental steps. Circle your final answer.

1. Assume that the array A has the values given in the table below. What would this program print?

```
FOR X = 1 TO 4
```

```
  C = 0
```

```
  FOR Y = 1 TO 3
```

```
    IF INT (A(X,Y) / 2 ) = A(X,Y) / 2 THEN C = C + 1
```

```
  NEXT Y
```

```
  PRINT C
```

```
NEXT X
```

1	2	0
4	6	8
10	3	7
8	2	1

2. What Does this Program Do – 2D Arrays

What is printed when this program is run?

for I = 1 to 3

```
for J = 1 to 3
  A(I,J) = I + J
  B(I,J) = I * J
  C(I,J) = A(I,J) + B(J,I)
next J
next I
print C(1,1)+C(2,2)+C(3,3)
end
```

3. 09-10 C3 What Does this Program Do – 2D Arrays

After this program is executed, what is the largest value in array B?

```
for I = 1 to 4
  for J = 1 to 4
    A(I,J) = 2*I+J
  next J
```

```
next I
for I = 1 to 4
  for J = 1 to 4
    S = 0
    for K = 1 to A(I,J)
      if A(I,J)/K = INT(A(I,J)/K) then S = S + K
    next K
    B(I,J)=S
  next J
next I
end
```