

2019-2020 Contest #3

JUNIOR DIVISION

2.



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5. What Does This Program Do? - Arrays

What is outputted when this program is run?

for i = 1 to 5 for j = 1 to 5 a(i,j) = int((i+j)/2)next j next i for i = 1 to 5 for j = 1 to 5 if a(i,j) / 2 == int(a(i,j) / 2) then a(i,j) = a(i,j) / 2else a(i,j) = 2 * a(i,j)end if next j next i for i = 1 to 5 for j = 1 to 4

if a(i,j) == a(i, j + 1) then

a(i,j) = 0

end if

print a(1,5) + a(5,5)

next j next i

end

5.



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5. What Does This Program Do? - Arrays

```
执行此程序时,会输出什么?
for i = 1 to 5
    for j = 1 to 5
       a(i,j) = int((i+j)/2)
    next j
next i
for i = 1 to 5
    for j = 1 to 5
        if a(i,j) / 2 == int(a(i,j) / 2) then
           a(i,j) = a(i,j) / 2
        else
           a(i,j) = 2 * a(i,j)
        end if
     next j
 next i
 for i = 1 to 5
    for j = 1 to 4
        if a(i,j) == a(i, j + 1) then
           a(i,j) = 0
        end if
    next j
 next i
 print a(1,5) + a(5,5)
 end
```

5.