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Part 1 of 1 -

Users present: Idiot, Tr ̣nh Quang Duy, Tson Nguyen, Tr ̣uong Hoàng Nhật, Nguyễn Vũ Sơn

Question 1 of 6 1.0 Points

Given the following code in a C-like language,

```
int i;  
int a[] = {0, 1, 2};  
  
void foo(int x) {  
    i++;  
    x++;  
    cout << a[0] << " " << a[1] << " " << a[2];  
}  
  
void main() {  
    i = 0;  
    foo(a[i]);  
}
```

Match the printing output to the parameter passing mechanism applied to the function foo?

A. 1 1 2
B. 0 2 2
C. 0 1 3
D. 0 1 2
E. No output

D 1. By value-result
A 2. By reference
B 3. By name
C 4. Not match
E 5. By constant reference

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Question 2 of 6 1.0 Points

What kind of parameter passing mechanism exploits "lazy evaluation"?

☒ A. Pass by name
☐ B. Pass by reference
☐ C. Pass by result
☐ D. Pass by value
☐ E. Pass by value-result

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Question 3 of 6

1.0 Points

Given the following code in C++:

```
void foo(int a, int* x, int* &y) {
    if (a > 0) x = y; else y = x;
}

void main() {
    int a = 5, b = 7, c, *p = &a, *q = &b;
    cin >> c;
    foo(c, p, q);
}
```

If the statement $y = x$ in foo is executed, what variable is modified?

☐ A. a

☐ B. b

☒ C. q

☐ D. p

☐ E. y

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Question 4 of 6

1.0 Points

What is the main difference between simple call-return subprogram and task?

☐ A. Single entry

☐ B. Immediate control transfer

☐ C. Explicit call site

☐ D. No recursion

☒ E. Single execution

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Question 5 of 6

Which property of simple call-return subprogram does scheduled one overcome?

1.0 Points

☐ A. Explicit call site

☐ B. Single Execution

☐ C. No recursion

☐ D. Single Entry

☒ E. Immediate control transfer

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Question 6 of 6

Given the following code in a C-like language,

```
int x = 2;
int f (int y) { return x*y ; }
void g (int h(int b)) {
    int x = 3;
    return h(4) * x ;
}
...
{ int x = 4;
  int z = g (f) ;
}
```

Match the value of z after the last statement is executed to the mechanism applied?

A. 11

B. Other value

C. 15

D. 19

A 1. Static scoping and deep binding

D 2. Dynamic scoping and deep binding

C 3. Dynamic scoping and shallow binding

B 4. Not match

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