

Practice Problems for Finals



اللهم أرزُقنِي عِلْمًا نَافِعًا وَاسِعًا عَمِيُقًا

اَللَّهُمَّ اُرُزُقْنِى رِزُقًا وَاسِعًا حَلَالًا طَيِّبًا مُبَارَكًا مِنْ عِنْدِكَ مُبَارَكًا مِنْ عِنْدِكَ

What will be the output of the program?

```
int a[10] = {10};
for (int x = 0; x < 10; x++)
{
   cout << a[x] << endl;
}</pre>
```

What will be the output of the program?

```
string arr = "Hello\OWorld";
cout << arr;</pre>
```

What will be the output of the program?

```
char name[5] = {'a', 'b', 'c', 'd', 'e'};
cout << name << endl;</pre>
```

 What will be the output of the program if the array begins at address 65486?

```
int main()
{
    int arr[] = {12, 14, 15, 23, 45};
    cout << arr << endl << &arr;
}</pre>
```

What will be stored in beta[3][3]?

```
for (int i = 0; i < 3; i++)
  for (int j = 0; j < 3; j++)
    beta[i][j] = i * j;</pre>
```

What will be the output?

```
void print(int arr[], int size)
{
    for(int x = 0; x < size; x++)
        {
        cout << arr[x] << endl;
        }
}</pre>
```

```
main()
    int arr[3][3] = {
                        {1,2,3},
                        {4,5,6},
                        {7,8,9}
                      };
    print(arr[2], 3);
    print(arr[1], 3);
    print(arr[0], 3);
```

Pointers: Review

What will be the output?

```
int a = 5, b = 10, c = 15;
int *p1 = &a, *p2 = &b, *p3 = &c;

*p2 = *p3 - *p1;

cout << *p1 << " " << *p2 << " " << *p3 << endl;</pre>
```

Pointers: Review

What will be the output?

```
int arr[] = {1, 2, 3, 4, 5};
int *p1 = arr;
int *p2 = &arr[3];
cout << p2 - p1 << endl;</pre>
```

- Write a function
 bool myFunction(int arr[3][3], int colId, int rowID)
 That will return true if the specific row is equal to the specific column passed a parameter.
- Write a function
 bool myFunction1(int arr[3][3], in colId)
 That will return true if any of the row is equal to the specific column passed as a parameter
- Write a function
 bool myFunction2(int arr[3][3])
 That will return true if any of the row is equal to any of the column in the 2D array.



Paper Pattern



| Finals Paper Pattern

1. Question 1:
Output Based Questions in Parts

2. Question 2: Design Question to improve the Code

3. Question 3: Complex Coding Question



Your Feedback



Feedback

- 1. Course content
- 2. Class lectures and Labs
- 3. Course materials
- 4. Assignments and projects
- 5. Your Confidence in Programming
- 6. What Improvements can be done?