

POO Handout – Lab 2

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

**C++ Lab 2 – Arrays**

Considering the next given statements

```
void afisare_vector(int* vector, int n){
    printf("\n vector = ");
    for (int i = 0; i < 5; i++)
        printf("%d ", vector[i]);
}
```

```
int n = 5;
int elemente[] = { 10, 20, 30, 40, 50 };
int elemente2[5];
int* valori = new int[5];
```

analyze the next ones

|   | Expected value/error | Actual result/error | Reason for heaving an error |
|---|----------------------|---------------------|-----------------------------|
| print_vector(elemente, n);                |                      |                     |                             |
| printf("\n %d bytes", sizeof(elemente));  |                      |                     |                             |
| afisare_vector(elemente2, n);             |                      |                     |                             |
| printf("\n %d bytes", sizeof(elemente2)); |                      |                     |                             |
| printf("\n %d bytes", sizeof(valori));    |                      |                     |                             |
| printf("\n %d", valori[0]);               |                      |                     |                             |
| print_vector(valori, n);                  |                      |                     |                             |
| valori[5] = 777;                          |                      |                     |                             |
| afisare_vector(valori, n);                |                      |                     |                             |
| int * valori2 = valori;                   |                      |                     |                             |
| afisare_vector(valori2, n);               |                      |                     |                             |
| valori2[1] = 99;                          |                      |                     |                             |
| afisare_vector(valori, n);                |                      |                     |                             |
| afisare_vector(valori2, n);               |                      |                     |                             |
| valori[3] = 30;                           |                      |                     |                             |
| afisare_vector(valori, n);                |                      |                     |                             |
| afisare_vector(valori2, n);               |                      |                     |                             |
| delete[] valori;                          |                      |                     |                             |
| afisare_vector(valori, n);                |                      |                     |                             |
| afisare_vector(valori2, n);               |                      |                     |                             |

POO Handout – Lab 2  
**C++ Lab 2 – Arrays of chars**

```
char* cuvant = "abecedar";
char* cuvant2;
char cuvant3[20];
```

|   | Expected value/error | Actual result/error | Reason for heaving an error |
|---|----------------------|---------------------|-----------------------------|
| printf("\n %d bytes", sizeof(cuvant));  |                      |                     |                             |
| printf("\n %d", strlen(cuvant));        |                      |                     |                             |
| printf("\n %d bytes", sizeof(cuvant2)); |                      |                     |                             |
| printf("\n %d bytes", sizeof(cuvant3)); |                      |                     |                             |
| printf("\n %s", cuvant);                |                      |                     |                             |
| printf("\n %s", cuvant3);               |                      |                     |                             |

|   | Expected value/error | Actual result/error | Reason for heaving an error |
|---|----------------------|---------------------|-----------------------------|
| cuvant3[0] = 't';<br>cuvant3[1] = 'e';<br>cuvant3[2] = 's';<br>cuvant3[3] = 't';<br>printf("\n %s", cuvant3); |                      |                     |                             |

|   |  |  |  |
|---|--|--|--|
| cuvant3[3] = '\0';<br>printf("\n %s", cuvant3); |  |  |  |
|---|--|--|--|

```
cuvant2 = cuvant;
cuvant2[1] = 'A';
```

|                           | Expected value/error | Actual result/error | Reason for heaving an error |
|---------------------------|----------------------|---------------------|-----------------------------|
| printf("\n %s", cuvant);  |                      |                     |                             |
| printf("\n %s", cuvant2); |                      |                     |                             |
| delete[] cuvant;          |                      |                     |                             |
| delete[] cuvant3;         |                      |                     |                             |