

Student Name (بالعربي):

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Q1. What will be printed by the following code?

```
#include <stdio.h>

void swap(int a, int b){int x = a; a = b; b = x;}

void main(){
    int a[5] = {5,3,4};
    printf("%d %d ", a[1], a[3]);
    swap(a[1], a[3]);
    printf("%d %d ", a[1], a[3]);
}
```

a. 3 0 3 0

c. 0 3 0 3

b. 5 4 5 4

d. 4 5 4 5

Q2. What will be printed by the following code?

```
#include <stdio.h>

void update(int a[], int n, int x, int s){
    for(int i = 0; i<n; i++){
        if(a[i] == x)
            a[i] = s;
    }
}

void main(){
    int a[5] = {5, 3, 4, 7, 2};
    update(a, 5, 7, 9);
    printf("%d %d ", a[3], a[4]);
}
```

a. 7 2

b. 9 2

c. 9 7

d. 7 9

Q3. What will be printed by the following code?

```
#include <stdio.h>
void main(){
    int i=13, j=21, k, n=90;
    do{
        k = i + j;
        i = j;
        j = k;
    } while (k < n);
    printf("%d ", i);
}
```

a. 55

b. 89

c. 47

d. 34

Q4. What will be printed by the following code?

```
#include <stdio.h>
void main(){
    for(int x = 5; x >= 1; --x){
        if(x == 3) continue;
        printf("%d ", x);
    }
}
```

a. 5 4 3 2 1
c. 5 4 2 1

b. 5 4 3 2
d. 4 3 1 0

Q5. What will be printed by the following code?

```
#include <stdio.h>
void main(){
    int x = 5;
    do {
        if(x == 7) break;
        printf("%d ", x);
        ++x;
    } while(x <= 4);
    printf("%d ", x);
}
```

a. 5 6 7

b. 5 7

c. 5 6

d. 5 6 7 7