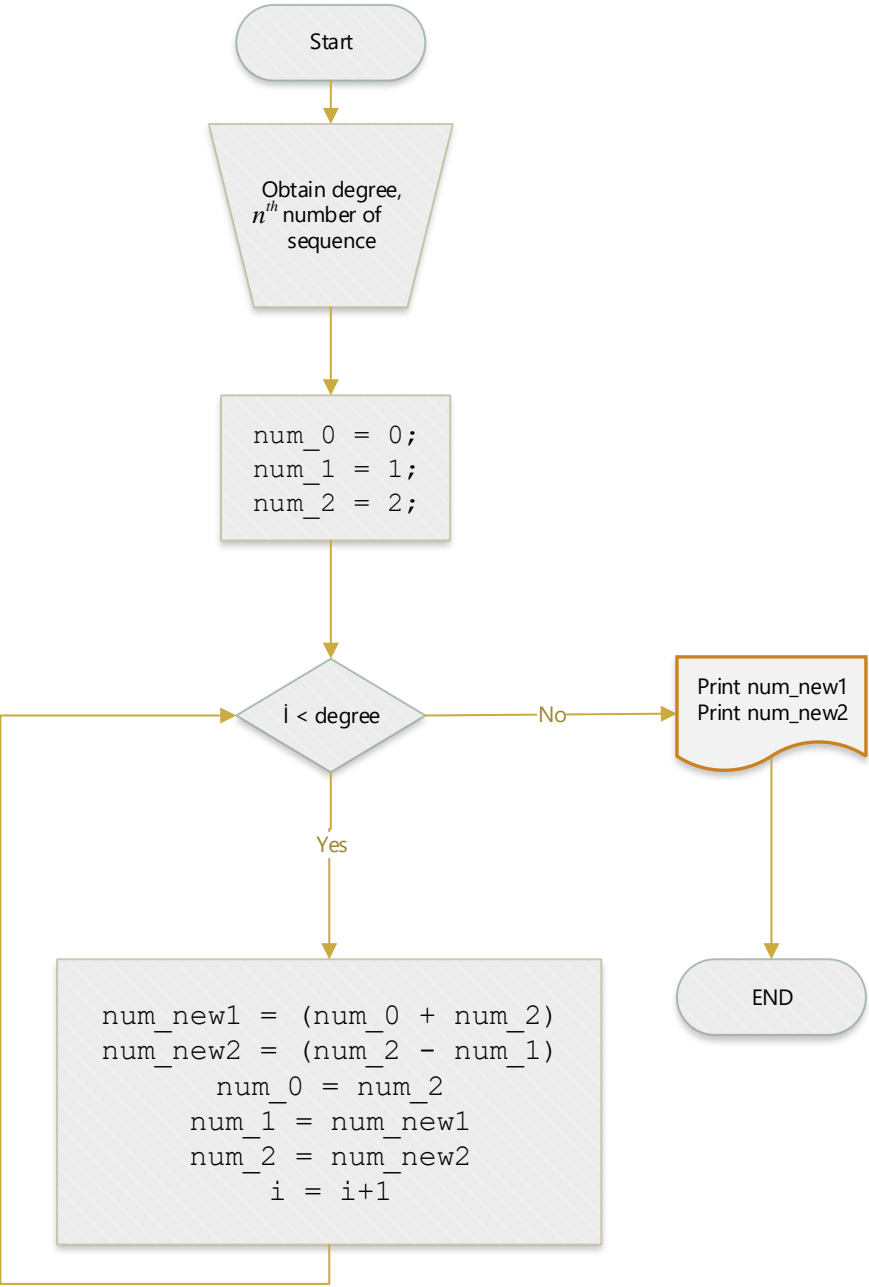
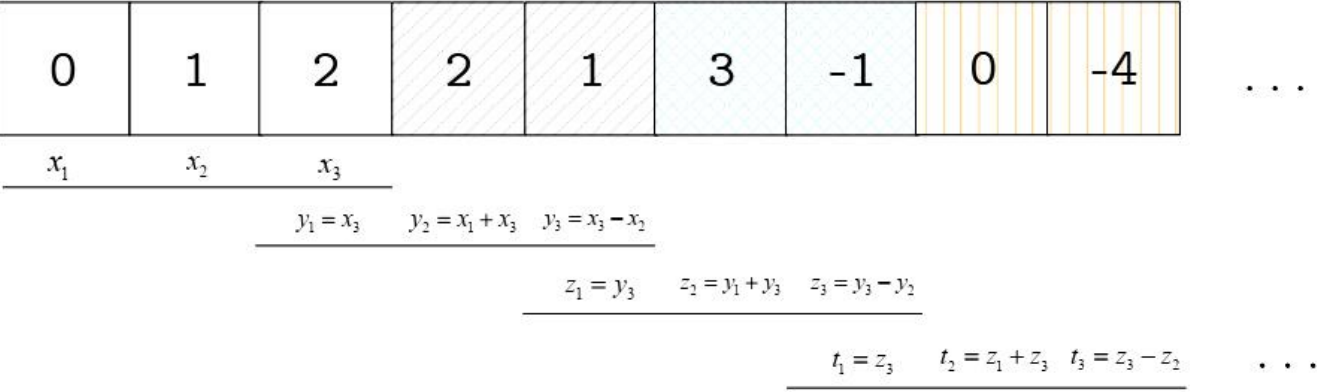


EED1005 Introduction to Programming - Laboratory Quiz 2

November 7, 2018

1. a) Write flowchart for an algorithm that generate the sequence that elements of is determined as given rules. b) Write c code of your flowchart (50p).



```
#include <stdio.h>

int main() {
    int num_0, num_1, num_2, degree;
    int num_new1, num_new2;
    printf("Enter an integer : ");
    scanf("%d", &degree);
    num_0 = 0;
    num_1 = 1;
    num_2 = 2;

    for (int i = 3; i < degree ; ++i) {
        num_new1 = (num_0 + num_2) ;
        num_new2 = (num_2 - num_1) ;
        num_0 = num_2;
        num_1 = num_new1;
        num_2 = num_new2;
    }

    printf("1st element of pair: %d\n",num_new1);
    printf("2nd element of pair: %d\n",num_new2);

    return 0;
}
```

Enter an integer :4
4
1st element of pair: 2
2nd element of pair: 1

1. attempt

Enter an integer :5
5
1st element of pair: 3
2nd element of pair: -1

2. attempt

Enter an integer :6
6
1st element of pair: 0
2nd element of pair: -4

3. attempt