Tasks:

```c
#include <math.h>

int *func(int size ){
    int * arr = (int*)malloc(size * sizeof(int));
    int i=0;
    for(;i<size;i++){
        scanf("%d",arr+i);
    }
    int start = 0 , end = size-1,temp;
    while(start<end){
        temp = arr[start];
        arr[start]= arr[end];
        arr[end] = temp;
        start++;
        end--;
    }
    return arr;
}
void main(){
    int *p,size;
    printf("Enter number of array: ");
    scanf("%d",&size);
    p = func(size);
    int i=0;
    printf("Reverse array is : ");
    for(;i<size;i++)
    {
        printf("%d\t",*(p+i));
    }
}
```

```
PS H:\NTI\C_language\labs> gcc .\lab_12.c
PS H:\NTI\C_language\labs> .\a.exe
Enter number of array: 5
1
2
3
4
5
Reverse array is : 5     4       3       2       1
PS H:\NTI\C_language\labs>
```

```c

typedef struct {
    int array[100];
    int count;
}data_t;
data_t func_2(int y){
    static data_t b;
    int start=0,end=1;
    int i=2;
    b.count=0;
    b.array[0]=0;
    b.array[1]=1;
    b.array[2] = start+end;
    while (b.array[i]<=y){
        start = end;
        end = b.array[i];
        b.array[i+1] = start + end;
        i++;
    }
    b.count = i;
    return b;
}
void main(){
    data_t x;
    int end;
    printf("Enter end of array: ");
    scanf("%d",&end);
    x = func_2(end);
    int i=0;
    printf("Fibonacci Series: ");
    for(;i<x.count;i++){
        printf("%d\t",x.array[i]);
    }

```

```
PS H:\NTI\C_language\labs> .\a.exe
Enter end of array: 5
Fibonacci Series: 0     1       1       2       3       5
PS H:\NTI\C_language\labs> .\a.exe
Enter end of array: 16
Fibonacci Series: 0     1       1       2       3       5       8       13
PS H:\NTI\C_language\labs> gcc .\lab_12.c
PS H:\NTI\C_language\labs> .\a.exe
Enter end of array: 5
Fibonacci Series: 0     1       1       2       3       5
PS H:\NTI\C_language\labs>
```