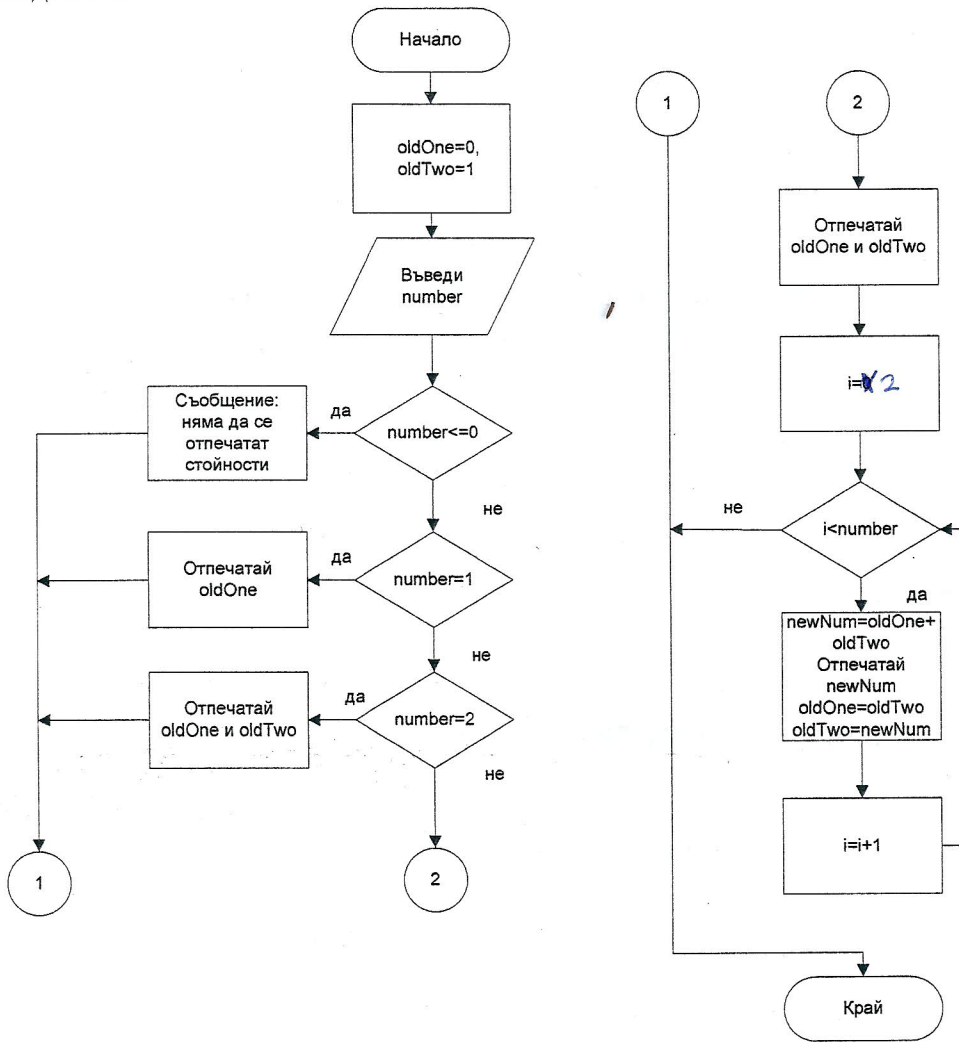


Задача 1.



```

#include <stdio.h>
#include <stdlib.h>

int main(int argc, char *argv[])
{
    int i; //използва се при for
    int number; //за броя на стойностите, които ще се отпечатат
    int oldOne=0;
    int oldTwo=1;
    int newNum;

    printf("Programa za redicata na Fibonachi!\n");
    printf("Vuvedete broq stoinosti, koito da se otpechatat: ");
    scanf("%d", &number);

    if (number <= 0)
        printf("No elements to print!\n");
    else if (number == 1)
        printf("%d ", oldOne);
    else if (number == 2)
        printf("%d %d", oldOne, oldTwo);
    else
    {
        printf("%d ", oldOne);
        printf("%d ", oldTwo);
        for (i=2; i < number; i++)
  
```

```

    {
        newNum=oldOne+oldTwo;
        printf("%d ", newNum);
        oldOne=oldTwo;
        oldTwo=newNum;
    }
}
system("PAUSE");
return 0;
}

```

Задача 1.1: Ограничете стойността за брой на стойностите ($0 \leq \text{number} \leq 20$).

Задача 2.

```

#include <stdio.h>
#include <stdlib.h>

```

```

int main(int argc, char *argv[])
{
    int i = 0, num = 1, fact;

    do
    {
        printf("\nPlease enter an integer number!\n");
        scanf("%d", &num);
        if (num<=0)
            printf ("It should be a positive number!\n");
    }while(num<=0);

    fact = 1;
    for(i = 1; i <= num; i++)
    {
        fact *= i;
    }
    printf("The factorial %d! is: %d\n", num, fact);

    system("PAUSE");
    return 0;
}

```

Задача 3.

```

#include <stdio.h>
#include <stdlib.h>

```

```

int main(int argc, char *argv[])
{
    int number, i=1, fact=1;

    printf("\nPlease enter an integer number!\n");
    scanf("%d", &number);
    if (number<=0)
        printf ("It should be a positive number!\n");
}

```

```

else
{
while (i<=number)
{
fact=fact*i;
i++;
}
printf("The factorial %d! is: %d\n", number, fact);
}
system("PAUSE");
return 0;
}

```

Задача 3. 1: Да се пренапише, но с използване на *do ... while*

Задача 4.

```

#include <stdio.h>
#include <stdlib.h>

int main(int argc, char *argv[])
{
    int choice, number;
    int i=15, j=25, k;
    float f=23.658, b=0.00006;

    printf("Izberi:\n");
    printf("1. Proverka dali dadeno cqlo chislo e chetno ili
nechetno\n");
    printf("2. Rezultat ot izpylnenieto na (%8.4f) za 23.658\n");
    printf("3. Rezultat ot izpylnenieto na k=(j==10) ? i : j \n");
    printf("4. Rezultat ot izpylnenieto na (%14e) for b=0.00006\n");
    scanf("%d", &choice);

    switch (choice)
    {
        case 1:
            printf("Vyvedi cqlo chislo: ");
            scanf("%d", &number);
            if (number==0) printf("Nito chetno, nito nechetno\n");
            else if (number%2==0) printf("Chetno\n");
            else printf("Nechetno\n");
            break;
        case 2:
            printf("%8.4f\n", f);
            break;
        case 3:
            k=(j==10) ? i : j;
            printf("k=%d\n", k);
            break;
        case 4:
            printf("%14e\n", b);
            break;
        default:
            printf("Nevalidna operaciq\n");
    } // край на switch
    system("PAUSE");
    return 0;
}

```