

Programske paradigme — Strukturno programiranje, vežba

1. Napisati odgovarajući strukturni kod:

```
#include <stdio.h>
main()
{
int a, b, n=0;
120: scanf("%d", &a);
    b=-a;
    if(a>0) goto 130;
    b=a+10;
130: printf("b = %d\n",b);
    n=n+2;
    if (n!=10) goto 120;
}
```

```
#include <stdio.h>
main()
{
    int a,b,n;
    for(n=0;n!=10;n+=2){
        scanf("%d",&a);
        b=-a;
        if(a <= 0)
            b=a+10;
        printf("b=%d\n",b);
    }
}
```

2. Napisati odgovarajući strukturni kod:

```
#include <stdio.h>
main()
{
110: int k, j, n=0;
120: scanf("%d%d", &k, &j);
    n = j + k;
    if(k>0) goto 130;
    k = -k;
130: j++;
    k++;
    printf("j = %d, k = %d\n", j, k);
    n=n+1;
    if (n!=10) goto 120;
}
```

```
#include <stdio.h>
main()
{
    int k,j,n;
    for(n=0;n!=10;n++){
        scanf("%d%d",&k,&j);
        n=j+k;
        if(k<=0)
            k=-k;
        j++;
        k++;
        printf("j=%d, k=%d\n",j,k);
    }
}
```

3. Napisati odgovarajući strukturni kod:

```
#include <stdio.h>
main()
{
int a, b, n=0;
120: scanf("%d%d", &a, &b);
    b = a * 2;
    if(a<0) goto 130;
    a = -a - 1;
130: if(b<0) goto 150;
    b = -b - 1;
150: printf("a = %d b = %d\n", a, b);
    n = n + 10;
    if (n!=100) goto 120;
}
```

```
#include <stdio.h>
main()
{
    int a,b,n;
    for(n=0;n!=100;n+=10){
        scanf("%d%d",&a,&b);
        b=a*2;
        if(a>=0)
            a=-a-1;
        if(b>=0)
            b=-b-1;
        printf("a=%d b= %d\n", a, b);
    }
}
```

4. Napisati odgovarajući strukturni kod:

```
#include <stdio.h>
main()
{
    int a, b, i=0;
    scanf("%d", &a);
    b = a - 15;
    if(a<0) goto 130;
    b = a + 5;
    i += 2;
130: printf("b - a = %d\n",b - a);
    i = i + 1;
    a++;
    if (a>0) goto 140;
    a = -a;
    goto 150;
140: a -= 100;
150: if (i!=100) goto 130;
}
```

```
#include <stdio.h>
main()
{
    int a,b,i=0;
    scanf("%d", &a);
    b=a-15;
    if(a>=0){
        b=a+5;
        i+=2;
    }
    while(i!=100){
        printf("b - a = %d\n",b-a);
        i=i+1;
        a++;
        if(a<=0)
            a=-a;
        else
            a-=100;
    }
}
```