

Решења:

Програмски језик PASCAL

1.

```
Program okr_II_1;
Var v, vp, bm, vm, bv, vv, pv, bp, b: integer;
Begin
  readln(v);
  readln(bm, vm, bv, vv);
  vp:=vm+vv;
  bp:=v div vp;
  if bm<bv then b:=bm
  else b:=bv;
  if v mod vp=0 then
    if b>=bp then writeln('Mogu. Broj platformi ',bp-1)
    else writeln('Ne mogu')
  else
    if b>bp then writeln('Mogu. Broj platformi ',bp)
    else if b<bp then writeln('Ne mogu')
    else begin
      if (bm-bp>0) and (vm>=v mod vp)
        then writeln('Mogu. Broj platformi ',bp)
        else writeln('Ne mogu')
    end
  end
End.
```
2.

```
Program okr_II_2;
Var r, n, p, max, pmax, poz, i: integer;
Begin
  readln(r, n);
  readln(p);
  max:=p;
  pmax:=1;
  poz:=0;
  for i:=2 to n do begin
    readln(p);
    poz:=poz+r;
    if abs(poz-p)>max then begin
      max:=abs(poz-p);
      pmax:=i;
    end
  end;
  writeln(pmax, '. patuljak ', max, ' metara')
End.
```
3.

```
Program okr_II_3;
Var z: array[1..100] of char;
    bc1, bc2, bz, p, k, i, n: integer;
    b: char;
Begin
  readln(bc1, bz, bc2);
  readln(b, p, k);
  n:=bc1+bz+bc2;
  for i:=1 to bc1 do z[i]:='C';
  for i:=1 to bz do z[i+bc1]:='Z';
  for i:=1 to bc2 do z[i+bc1+bz]:='C';
  for i:=n downto p do z[i+k]:=z[i];
  for i:=1 to k do z[i+p]:=b;
  for i:=1 to n+k do write(z[i]:2); writeln
End.
```

Решења:

Програмски језик BASIC

1.

```
REM OKRUZNO_II_1
INPUT V
INPUT BM, VM, BV, VV
VP = VM + VV
BP = V \ VP
IF BM < BV THEN
    B = BM
ELSE
    B = BV
END IF
IF V MOD VP = 0 THEN
    IF B >= BP THEN
        PRINT "Mogu. Broj platformi ", BP - 1
    ELSE
        PRINT "Ne mogu"
    END IF
ELSE
    IF B > BP THEN
        PRINT "Mogu. Broj platformi ", BP
    ELSEIF B < BP THEN
        PRINT "Ne mogu"
    ELSE
        IF BM - BP > 0 AND VM >= V MOD VP THEN
            PRINT "Mogu. Broj platformi "; BP
        ELSE
            PRINT "Ne mogu"
        END IF
    END IF
END IF
END
```
2.

```
REM OKRUZNO_II_2
INPUT R, N
INPUT P
MAX = P
PMAX = 1
POZ = 0
FOR I = 2 TO N
    INPUT P
    POZ = POZ + R
    IF ABS(POZ - P) > MAX THEN
        MAX = ABS(POZ - P)
        PMAX = I
    END IF
NEXT I
PRINT PMAX; ". patuljak"; MAX; "metara"
END
```

```
3.  REM OKRUZNO_II_3
    DIM Z$(100)
    INPUT BC1, BZ, BC2
    INPUT B$, P, K
    N = BC1 + BZ + BC2
    FOR I = 1 TO BC1
        Z$(I) = "C"
    NEXT I
    FOR I = 1 TO BZ
        Z$(I + BC1) = "Z"
    NEXT I
    FOR I = 1 TO BC2
        Z$(I + BC1 + BZ) = "C"
    NEXT I
    FOR I = N TO P STEP -1
        Z$(I + K) = Z$(I)
    NEXT I
    FOR I = 1 TO K
        Z$(I + P) = B$
    NEXT I
    FOR I = 1 TO N + K
        PRINT Z$(I); " ";
    NEXT I
    PRINT
    END
```

Решења:

Програмски језик C

1.

```
// Okruzno - II kategorija - 1 zadatak
#include <iostream.h>
void main() {
    int v, vp, bm, vm, bv, vv, bp, b;
    cin >> v;
    cin >> bm >> vm >> bv >> vv;
    vp=vm+vv;
    bp=v/vp;
    if (bm<bv) b=bm;
    else b=bv;
    if (v%vp==0)
        if (b>=bp) cout << "Mogu. Broj platformi je " << bp-1 << "\n";
        else cout << "Ne mogu\n";
    else {
        if (b>bp) cout << "Mogu. Broj platformi je " << bp << "\n";
        else if (b<bp) cout << "Ne mogu\n";
        else {
            if (bm-bp>0 && vm>=v%vp)
                cout << "Mogu. Broj platformi je " << bp << "\n";
            else cout << "Ne mogu\n";
        }
    }
}
```
2.

```
// Okruzno - II kategorija - 2 zadatak
#include <iostream.h>
#include <math.h>
void main() {
    int r, n, p, max, pmax, poz, i;
    cin >> r >> n;
    cin >> p;
    max=p;
    pmax=1;
    poz=0;
    for(i=2; i<=n; i++) {
        cin >> p;
        poz=poz+r;
        if (abs(poz-p)>max) {
            max=abs(poz-p);
            pmax=i;
        }
    }
    cout << pmax << ". patulja " << max << " metara\n";
}
```

3. // Okruzno - II kategorija - 3 zadatak
#include <iostream.h>
void main() {
 int bc1,bc2,bz,p,k,i,n;
 char b,z[100];
 cin >> bc1 >> bz >> bc2;
 cin >> b >> p >> k;
 n=bc1+bz+bc2;
 for(i=0;i<bc1;i++) z[i]='C';
 for(i=0;i<bz;i++) z[i+bc1]='Z';
 for(i=0;i<bc2;i++) z[i+bc1+bz]='C';
 for(i=n-1;i>=p;i--) z[i+k]=z[i];
 for(i=0;i<k;i++) z[i+p]=b;
 for(i=0;i<n+k;i++) cout << z[i];
 cout << "\\n";
}