

**Општинско такмичење из програмирања за ученике основних школа**

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**I категорија (5. и 6. разред)**

**Програмски језик PASCAL**

**1. STOLOVI**

```
Program STOLOVI;  
Var r,s1,s2,b,s3,z:integer;  
Begin  
    readln(r,s1,s2,b);  
    z:=s1*5+s2*7+b;  
    s3:=(r-z) div 2;  
    writeln(s3)  
End.
```

**2. JELO**

```
Program JELO;  
Var p,z,p1,z1:integer;  
Begin  
    readln(p,z);  
    p:=2*p-round(2*p*0.2);  
    p1:=p div 2;  
    z1:=2*z div 3;  
    if p1 <= z1 then writeln(p1)  
    else writeln(z1)  
End.
```

**3. KARTA**

```
Program KARTA;  
Var h,v,p,r:integer;  
Begin  
    h:=0; v:=0;  
    readln(p,r);  
    if (p mod 2 = 0) then r:=-r;  
    if (p>2) then h:=h+r  
    else v:=v+r;  
    readln(p,r);  
    if (p mod 2 = 0) then r:=-r;  
    if (p>2) then h:=h+r  
    else v:=v+r;  
    readln(p,r);  
    if (p mod 2 = 0) then r:=-r;  
    if (p>2) then h:=h+r  
    else v:=v+r;  
    if (h=0) or (v=0) then writeln('ISTA')  
    else begin  
        if (v>0) then write('S')  
        else write('J');  
        if (h>0) then writeln('I')  
        else writeln('Z')  
    end  
End.
```

## Програмски језик BASIC

### 1. STOLOVI

```
REM STOLOVI
INPUT R
INPUT S1
INPUT S2
INPUT B
Z = S1 * 5 + S2 * 7 + B
S3 = INT((R - Z) / 2)
PRINT S3
END
```

### 2. JELO

```
REM JELO
INPUT P
INPUT Z
P = 2 * P - INT(2 * P * 0.2 + 0.5)
P1 = INT(P / 2)
Z1 = INT(2 * Z / 3)
IF P1 <= Z1 THEN
    PRINT P1
ELSE
    PRINT Z1
END IF
END
```

### 3. KARTA

```
REM KARTA
H = 0
V = 0
INPUT P
INPUT R
IF P MOD 2 = 0 THEN R = -R
IF P > 2 THEN H = H + R ELSE V = V + R
INPUT P
INPUT R
IF P MOD 2 = 0 THEN R = -R
IF P > 2 THEN H = H + R ELSE V = V + R
INPUT P
INPUT R
IF P MOD 2 = 0 THEN R = -R
IF P > 2 THEN H = H + R ELSE V = V + R
IF H = 0 OR V = 0 THEN
    PRINT "ISTA"
ELSE
    IF V > 0 THEN
        PRINT "S";
    ELSE
        PRINT "J";
    END IF
    IF H > 0 THEN PRINT "I" ELSE PRINT "Z"
END IF
END
```

## Програмски језик C++

### 1. STOLOVI

```
// Stolovi
#include <iostream>
int main(){
    int r,s1,s2,s3,b,z;
    cin >> r >> s1 >> s2 >> b;
    z=s1*5+s2*7+b;
    s3=(r-z)/2;
    cout << s3;
}
```

### 2. JELO

```
// Jelo
#include <iostream>
int main(){
    int p,z,p1,z1;
    cin >> p >> z;
    p=2*p-(int)(2*p*0.2+0.5);
    p1=p/2;
    z1=2*z/3;
    if(p1<=z1) cout << p1;
    else cout << z1;
}
```

### 3. KARTA

```
// Karta
#include <iostream>
int main(){
    int h,v,p,r;
    h=0; v=0;
    cin >> p >> r;
    if (p%2==0) r=-r;
    if (p>2) h=h+r;
    else v=v+r;
    cin >> p >> r;
    if (p%2==0) r=-r;
    if (p>2) h=h+r;
    else v=v+r;
    cin >> p >> r;
    if (p%2==0) r=-r;
    if (p>2) h=h+r;
    else v=v+r;
    if ((h==0)|| (v==0)) cout << "ISTA\n";
    else {
        if (v>0) cout << "S";
        else cout << "J";
        if (h>0) cout << "I\n";
        else cout << "Z\n";
    }
}
```