```java
import java.util.Scanner;
public class Tema {
public static void main(String []args) {
    java.util.Scanner sc =new Scanner(System.in);
    int n= sc.nextInt();
    int s1=0, s2=0, s3=0, s4=0;
    int p1=1, p2=1, p3=1, p4=1;
    int i=1;
    double  s6=0, s5=0;
    double  p6=1;
    for(; i<=n; i++) {
        s1=s1+(2*i-1);
        p1=p1*(2*i-1);
        s2=s2+(2*i);
        p2=p2*(2*i);
        s3=s3+(3*i);
        p3=p3*(3*i);
        s4=s4+(4*i);
        p4=p4*(4*i);
        s6=s6+(i/(i+1d));
        p6=p6*(i/(i+1d));
        if(i%2==0) {
            s5=s5-(1d/i);
            }
        else {
            s5=s5+(1d/i);
            }
    }
    System.out.println("s1="+s1+","+"p1="+p1);
    System.out.println("s2="+s2+","+"p2="+p2);
    System.out.println("s3="+s3+","+"p3="+p3);
    System.out.println("s4="+s4+","+"p4="+p4);
    System.out.println("s5="+s5);
    System.out.println("s6="+s6+","+"p6="+p6);

    while (i<=n) {
        s1=s1+(2*i-1);
        p1=p1*(2*i-1);
        s2=s2+(2*i);
        p2=p2*(2*i);
        s3=s3+(3*i);
        p3=p3*(3*i);
        s4=s4+(4*i);
        p4=p4*(4*i);
        s6=s6+(i/(i+1d));
        p6=p6*(i/(i+1d));
        if(i%2==0) {
            s5=s5-(1d/i);
            }
        else {
            s5=s5+(1d/i);
            }
        i++;
    }
```

```java
        System.out.println("s1="+s1+","+"p1="+p1);
        System.out.println("s2="+s2+","+"p2="+p2);
        System.out.println("s3="+s3+","+"p3="+p3);
        System.out.println("s4="+s4+","+"p4="+p4);
        System.out.println("s5="+s5);
        System.out.println("s6="+s6+","+"p6="+p6);

        sc.close();
    }
}
```

Output:

```
3
s1=9,p1=15
s2=12,p2=48
s3=18,p3=162
s4=24,p4=384
s5=0.8333333333333333
s6=1.9166666666666665,p6=0.25
s1=9,p1=15
s2=12,p2=48
s3=18,p3=162
s4=24,p4=384
s5=0.8333333333333333
s6=1.9166666666666665,p6=0.25
```