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A)

```
package valeriu;  
import java.util.Scanner;
```

```
public class valeriu {  
  
    public static void main(String[] args) {  
  
        Scanner s=new Scanner (System.in);  
        int n=s.nextInt();  
        int sum=0;  
        double prod=1;  
        for(int i=1;i<=n;i++){  
            sum=sum+2*i;  
            prod=prod*2*i;  
        }  
        System.out.println(" produsul este " +prod);  
        System.out.println(" suma este " +sum);  
    }  
}
```

B)

```
package valeriu;  
import java.util.Scanner;
```

```
public class valeriu {  
  
    public static void main(String[] args) {  
  
        Scanner s=new Scanner (System.in);  
        int n=s.nextInt();  
        int sum=0;  
        double prod=1;  
        for(int i=1;i<=n;i++){  
            sum=sum+1*i;  
            prod=prod*1*i;  
        }  
        System.out.println(" produsul este " +prod);  
        System.out.println(" suma este " +sum);  
    }  
}
```

C)

```
package valeriu;
```

```

import java.util.Scanner;

public class valeriu {

    public static void main(String[] args) {

        Scanner s=new Scanner (System.in);
        int n=s.nextInt();
        int sum=0;
        double prod=1;
        for(int i=1;i<=n;i++){
            sum=sum+3*i;
            prod=prod*4*i;
        }
        System.out.println(" produsul este " +prod);
        System.out.println(" suma este " +sum);
    }
}

```

D)

```

package valeriu;
import java.util.Scanner;

public class valeriu {

    public static void main(String[] args) {

        Scanner s=new Scanner (System.in);
        int n=s.nextInt();
        int sum=0;
        double prod=1;
        for(int i=1;i<=n;i++){
            sum=sum+4*i;
            prod=prod*4*i;
        }
        System.out.println(" produsul este " +prod);
        System.out.println(" suma este " +sum);
    }
}

```

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```

package valeriu;
import java.util.Scanner;

public class valeriu {

```

```
public static void main(String[] args) {

Scanner s=new Scanner (System.in);
int n=s.nextInt();
double sum=0;
for(int i=1;i<=n;i++){
    if (i%2==0)
sum=sum-1.0/i;
    else
sum=sum+1.0/i;
}
System.out.println(sum);
}
}
```