

```
/**
 * Nombres entiers et boucles - points a) à e).
 *
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 * Classe: 11TG
 */
public class SimpleCalculationWithTwoInts
{
    private int a;
    private int b;

    public SimpleCalculationWithTwoInts(int pA, int pB)
    {
        a = Math.abs(pA);
        b = Math.abs(pB);
    }

    public void printAll()
    {
        if (a > b)
        {
            swap();
        }

        int i = a;
        while (i <= b)
        {
            System.out.println(i);
            i++;
        }
    }

    public int calculateSumEven()
    {
        if (a > b)
        {
            swap();
        }

        int sum, i;
        sum = 0;

        i = a;
        while (i <= b)
        {
            if (i % 2 == 0)
            {
                sum = sum + i;
            }
            i++;
        }

        return sum;
    }

    public double calculatePower()
    {
        double res = 1;
        int i;

        // pas de swap car a exp b est différente de b exp a

        i = 1;
        while (i <= b)
        {
            res = res * a;
            i++;
        }

        return res;
    }

    public void swap()
    {
        int tmp;

        tmp = a;
        a = b;
        b = tmp;
    }
}
```