```java
public class SumOfDiagonals {

    public static void main(String[] args)
    {
        int [][]a = { { 51, 21, 30, 41 },
                      { 53, 61, 74, 85 },
                      { 16, 24, 31, 43 },
                      { 55, 69, 75, 82 } };
        int n=4;
        int first = 0, second = 0;
        for (int i = 0; i < n; i++)
        {
            first += a[i][i];
            second += a[i][n - i - 1];
        }

        int t= first+second;

        System.out.println("first Diagonal:" +
first);

        System.out.println("second Diagonal: "+
second);

        System.out.println("TOTAL: "  + t);
    }

}
```