Complete the `OddSum` class below, which should add up all the odd integers between two integer bounds. As an example, given the two input bounds `3` and `8`, the program should compute $3 + 5 + 7 = 15$, and print the value `15`.

Complete the following code:

```java
import java.util.Scanner;

/**
   Computes a sum of odd integers between two bounds.
   Input: a, the lower bound (may be odd or even).
   Input: b, the upper bound (may be odd or even).
   Output: sum of odd integers between a and b (inclusive).
*/
public class OddSum
{
   public static void main(String[] args)
   {
      // Read values for a and b
      Scanner in = new Scanner(System.in);
      int a = in.nextInt();
      int b = in.nextInt();

      // your work here



      System.out.println(sum);
   }
}
```

Complete the following file:

OddSum.java

```java
 6       Input: b, the upper bound (may be odd or even).
 7       Output: sum of odd integers between a and b (inclusive).
 8    */
 9    public class OddSum
10    {
11       public static void main(String[] args)
12       {
13          // Read values for a and b
14          Scanner in = new Scanner(System.in);
15          int a = in.nextInt();
16          int b = in.nextInt();
17
18          int num = a;
19          int num1 = b;
20
21          int sum = 0;
22
23           while (num <= num1) {
24               if (num % 2 != 0) {
25                   sum += num;
26                 }
27               num ++;
28             }
29
30
31
32          System.out.println(sum);
```

```
33   |      }
34   | }
35   |
```
[Submit]

Testing OddSum.java

Test 1

```
3 8
15
```

pass

Test 2

```
4 8
12
```

pass

Test 3

```
3 11
35
```

pass

Test 4

```
4 11
32
```

pass

Test 5

```
-10 2
-24
```

pass

Student files

OddSum.java:

```
 1   import java.util.Scanner;
 2
 3   /**
 4      Computes a sum of odd integers between two bounds.
 5      Input: a, the lower bound (may be odd or even).
 6      Input: b, the upper bound (may be odd or even).
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 8   */
 9   public class OddSum
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15         int a = in.nextInt();
```

```
16          int b = in.nextInt();
17
18          int num = a;
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24               if (num % 2 != 0) {
25                   sum += num;
26               }
27               num ++;
28           }
29
30
31
32          System.out.println(sum);
33      }
34  }
```

Score

5/5

___

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