1.2. If I tell you that I will call upon a student whose last name is "Ryan", how much information did I share?

Question 2: Tracing Consider the following code listing:

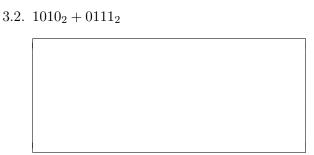
```
int f(int x) {
1
2
     int r;
3
     int odd = 1;
     for (r = 0; x >= odd; r++) {
4
       x -= odd;
5
6
       odd += 2;
7
    }
8
     return r;
  }
```

What does this code do?

Question 3: Binary Addition and Overflow What is the 4-bit result of the following unsigned operations? Did overflow occur (yes/no)?

 $3.1. 1010_2 + 0101_2$





 $3.3. \ 1001_2 + 0111_2$

 $3.4. \ 0110_2 + 0110_2$

What is the minimum number of bi	ts needed to represent 20 in two's complement?
Convert the following two's complex	ment number to decimal: $0b1111_1110$ complement?
Convert the following two's complex	ment number to decimal: $0b0011_1000$
All anguage must be 4 bits	
All answers must be 4 bits. $4.1. \ 0111_2 + 0101_2$	$4.3. \ 1111_2 + 0110_2$
	$4.3. \ 1111_2 + 0110_2$
	$4.3. \ 1111_2 + 0110_2$
	$4.3. \ 1111_2 + 0110_2$
	$4.3. \ 1111_2 + 0110_2$
	$4.3. \ 1111_2 + 0110_2$ $4.4. \ 1101_2 + 1011_2$
$4.1. \ 0111_2 + 0101_2$	
$4.1. \ \ 0111_2 + 0101_2$	