## cc-practice-continue

## **Example: summing up numbers.**

The loop terminates when 10 non-zero numbers have been read. Whenever the number 0 is read, continue is executed, the rest of the loop body is skipped, but we're still inside the loop.

Input file:

```
echo 1 1 1 1 1 1 1 0 1 1 > ./src/continue bash cat ./src/continue
```

Pseudo code:

Code:

```
int n=0, sum = 0;
int i;

while ( n < 10 ) {
    scanf("%d", &i);
    if ( i == 0 )
        continue;
    sum += i;
    n++;
    /* continue jumps to here */
}
printf("sum is %d\n", sum);</pre>
```

```
sum is 10
```

```
sum is 10
```

## **Problem**

Change the code in 1 so that you do not use continue but still get the desired result.

## **Solution**

Answer: change the if statement so that the summing is bypassed.

```
if ( i != 0 ) {
   sum += i;
   n++;
  }
```

Pseudo code:

Code:

```
int n=0, sum = 0;
int i;

while ( n < 10 ) {
    scanf("%d", &i);
    if ( i != 0 ) {
        sum += i;
        n++;
    }
    }
    printf("sum is %d\n", sum);</pre>
```

```
sum is 10
```

```
sum is 10
```

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