

Count even and odd numbers  
from user input.

Top down design  
(step-wise refinement)

1. set up the program
2. read user inputs and count evens and odds.
3. print results

1. int numEvens  
int numOdds  
// keep counts  
Scanner  
int count  
int total

CountEvens.java

2. a. counter control  
↳ ask how many #'s read into total  
b. count from 1 to total  
→ increment count *while*  
→ ask for a number  
→ read it  
→ check even/odd *if*  
→ increment numEven or numOdd

```
count = 1;
while (count <= total) {
    count ++;
    S.o.pln ("Enter a #");
    int number = input.next().Int();
    if (number % 2 == 0) {
        numEvens ++;
    }
    else {
        numOdds ++;
    }
}
//end while
S.o.pf ("Evens: %d, Odds %d\n",
    numEvens, numOdds);
```