Example problems with solutions
Write Perl programs, which accomplish the following tasks. Assume that the input comes form the standard input device.

1. Count the number of input lines.
   Solution:
   ```perl
   while (<>) {
     $counter++; 
   }
   print "$counter
";
   ```

2. Count the number of input words.
   Solution:
   ```perl
   while (<>) {
     foreach (split) {
       $counter++; 
     }
   }
   print "$counter
";
   ```

3. Count the number of times word “Alice” occurs inside the input.
   Solution:
   ```perl
   while (<>) {
     foreach (split) {
       if($_ eq "Alice"){
         $counter++; 
       }
     }
   }
   print "$counter
";
   ```

4. Create a list consisting of all input words and print out its size.
   Solution:
   ```perl
   while (<>) {
     foreach (split) {
       $words[$index]=$_; 
       $index++; 
     }
   }
   print $#words +1;
   ```

5. Create a hash in which keys are input words and values are numbers of occurrences of a given key.
   Solution:
   ```perl
   while (<>) {
   ```
foreach (split) {
    $words{$_}++;
}
}

6. List the words, which occur most often inside the input.
   Solution:
while (<>) {
    foreach (split) {
        $words{$_}++;
    }
}
while(($key, $value) = each %words){
    if($value > $max){
        $max=$value;
    }
}
while(($key, $value) = each %words){
    if($value == $max){
        print "$key
";
    }
}

7. List the words, which occur more than 100 times inside the input.
   Solution:
while (<>) {
    foreach (split) {
        $words{$_}++;
    }
}
while(($key, $value) = each %words){
    if($value > 100){
        print "$key
";
    }
}