**For Loop**

https://hr-avatars.s3.amazonaws.com/999ef026-b8cb-40ce-beb9-e8f7f10fd2c6/150x150.png**by [abhiranjan](https://www.hackerrank.com/abhiranjan)**

**Problem Statement**

A *for* loop is a programming language statement which allows code to be repeatedly executed.

The syntax for this is

for ( <expression\_1> ; <expression\_2> ; <expression\_3> )

<statement>

* *expression\_1* is used for intializing variables which are generally used for controlling terminating flag for the loop.
* *expression\_2* is used to check for the terminating condition. If this evaluates to false, then the loop is terminated.
* *expression\_3* is generally used to update the flags/variables.

A sample loop will be

for(int i = 0; i < 10; i++) {

...

}

**Input Format**

You will be given two positive integers, a and b (a≤b), separated by a newline.

**Output Format**

For each integer n∈[a,b] (so all numbers in that range):

* If 1≤n≤9, then print the English representation of it. That is "one" for 1, "two" for 2, and so on.
* Else if n>9 and it is even, then print "even".
* Else if n>9 and it is odd, then print "odd".

**Note:** [a,b] represents the interval, i.e., [a,b]={x∈Z| a≤x≤b}={a, a+1,…,b}

**Sample Input**

8

11

**Sample Output**

eight

nine

even

odd

<https://www.hackerrank.com/challenges/c-tutorial-for-loop>

#include <cmath>

#include <cstdio>

#include <vector>

#include <iostream>

#include <algorithm>

#include <conio.h>

using namespace std;

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int a,b;

cin >> a >> b;

for(int n = a; n <= b; n++) {

if(n == 1) {

cout << "one" << endl;

}

else if(n == 2) {

cout << "two" << endl;

}

else if(n == 3) {

cout << "three" << endl;

}

else if(n == 4) {

cout << "four" << endl;

}

else if(n == 5) {

cout << "five" << endl;

}

else if(n == 6) {

cout << "six" << endl;

}

else if(n == 7) {

cout << "seven" << endl;

}

else if(n == 8) {

cout << "eight" << endl;

}

else if(n == 9) {

cout << "nine" << endl;

}

else {

// cout << "Greater than 9" << endl;

if(n % 2 == 0) {

cout << "even" << endl;

}else {

cout << "odd" << endl;

}

}

}

getch();

return 0;

}