# include<iostream>

using namespace std;

int main(){

int a;

cout<<"Enter 1 if you want to see the list of even numbers from 1 to 1000"<<endl;

cout<<"Enter 2 if you want to see the list of even numbers from 1000 to 1"<<endl;

cout<<"Enter 3 if you want to see the list of odd numbers from 1 to 1000"<<endl;

cout<<"enter 4 if you want to see the list of odd numbers from 1000 to 1"<<endl;

cin>>a;

if(a==1){

cout <<"this is for loop for even numbers from 1-1000"<<endl;

for(int i=0;i<=1000;i=i+2){

cout<<i<<endl;

}

}

else if(a==2){

cout<<"this is for loop for even numbers from 1000-1"<<endl;

for (int a=1000;a>0;a=a-2){

cout<<a<<endl;

}

}

else if(a==3){

cout<<"this loop is for odd numbers from 1-1000"<<endl;

for (int b=1;b<1000; b=b+2){

cout<<b<<endl;

}

}

else if(a==4){

cout<<"this loop is for odd numbers from 1000-1"<<endl;

for (int b=1001;b>1; b=b-2){

cout<<b<<endl;

}

}

else{

cout<<"invalid input";

}

}