// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

inp.on("line", (data) => {

userInput.push(data);

});

inp.on("close", () => {

//start-here

var num = userInput[0];

var n =num.toString();

var even="",odd="";

for(i=0;i<n.length;i++)

{

if(n[i]%2==0)

{

even+=n[i];

even+=" ";

}

}

console.log(even);

for(i=0;i<n.length;i++)

{

if(n[i]%2!=0)

{

odd+=n[i];

odd+=" ";

}

}

console.log(odd);

//end-here

});