import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s = sc.next();

String a[] = {"dog","cat","men"};

boolean r1 = false;

for(String i : a){

if(r1 = i.equals(s)){

break;

}

}

System.out.println(r1);

}

}