#include<stdio.h>

int main()

{

int choice, num, i;

while(1)

{

printf("1. composite\n");

printf("2. Prime\n");

printf("Enter your choice : ");

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("Enter number:\n");

scanf("%d", &num);

if(num == 1)

printf("\n1 is neither prime nor composite\n\n");

for(i = 2; i < num; i++)

{

if(num%i == 0)

{

printf("\n%d is a composite number\n\n", num);

break;

}

}

case 2:

printf("Enter number:\n");

scanf("%d", &num);

if(num == 1)

printf("\n1 is neither prime nor composite\n\n");

for(i = 2; i < num; i++)

{

if(num%i == 0)

{

printf("\n%d is not a prime number\n\n", num);

break;

}

}

/\*

Not divisible by any number other

than 1 and itself

\*/

if(i == num)

{

printf("\n\n%d is a Prime number\n\n", num);

break;

}

}

}

return 0;

}