

6.2

代码：

**import** java.util.Scanner;

**public** **class** one {

**public** **static** **int** sumDigits(**long** n)

{

**int** x=0;

**do** {

x+=n%10;

n=n/10;

}**while**(n>0);

**return** x;

}

**public** **static** **void** main(String[] args)

{

Scanner input = **new** Scanner(System.***in***);

System.***out***.println("Enter a integer");

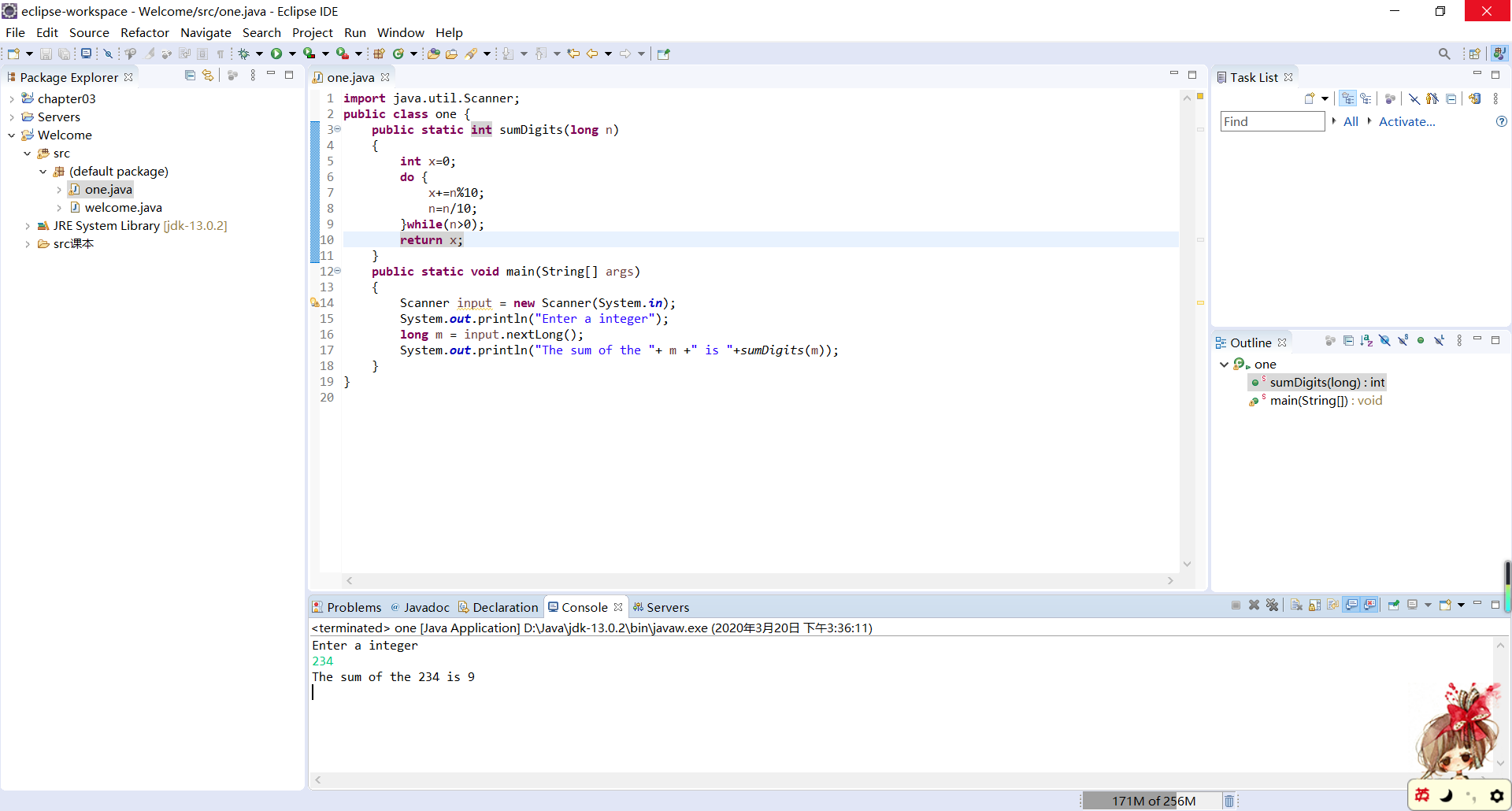
**long** m = input.nextLong();

System.***out***.println("The sum of the "+ m +" is "+*sumDigits*(m));

}

}

截图：



6.3

代码：

**import** java.util.Scanner;

**public** **class** two {

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

System.***out***.println("Enter a integer");

**int** num=input.nextInt();

**if**(*isPalindrome*(num))

System.***out***.println("The "+num+" is the reveral");

**else**

System.***out***.println("The "+num+" isn't the reveral");

}

**public** **static** **int** reverse(**int** number)

{

**int** x=0,r=0;

**do** {

r=number%10;

x=x\*10+r;

number=number/10;

}**while**(number>0);

**return** x;

}

**public** **static** **boolean** isPalindrome(**int** number)

{

**if**(*reverse*(number)==number)

**return** **true**;

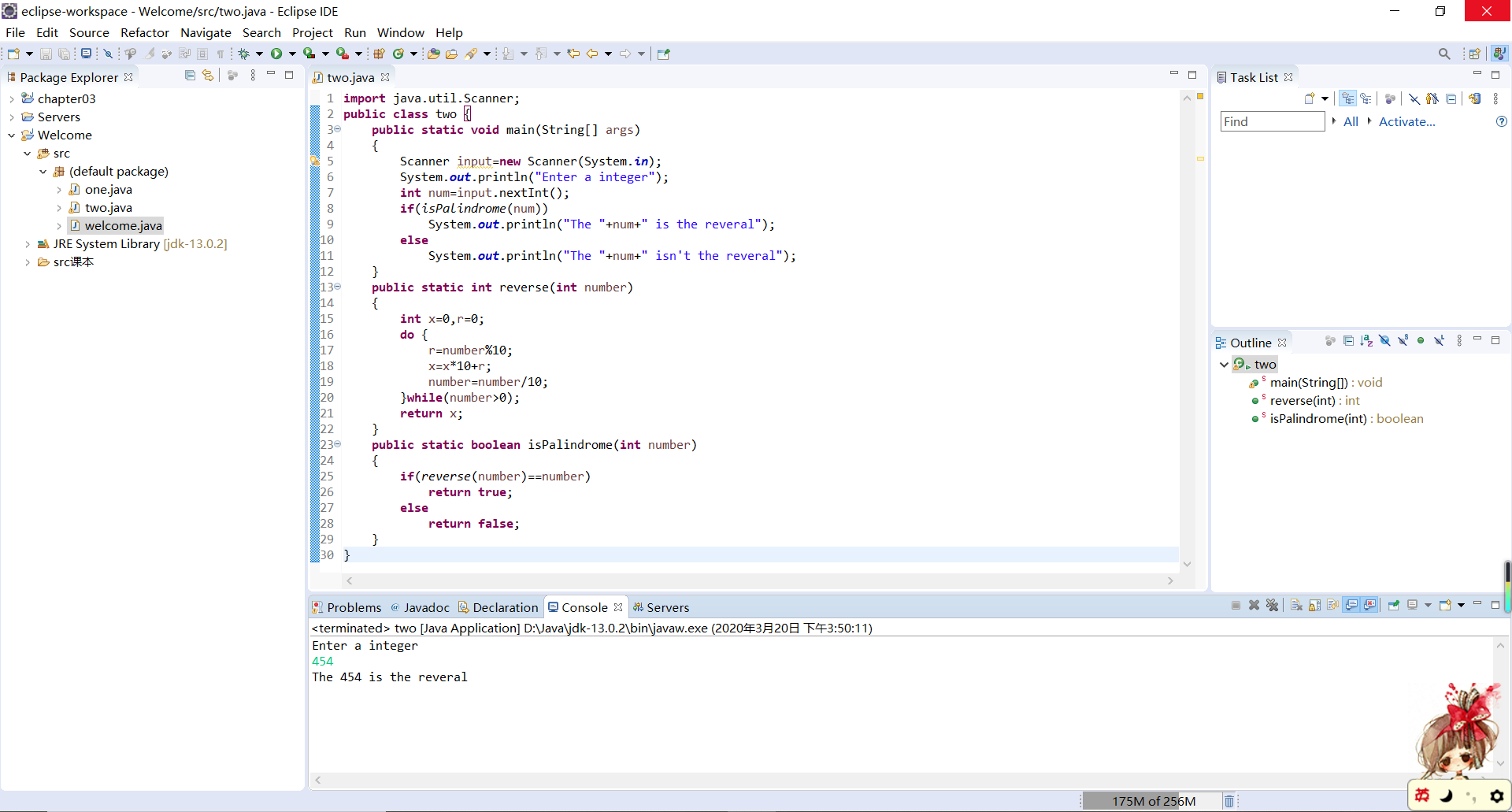
**else**

**return** **false**;

}

}

截图：



6.13

代码：

**public** **class** three {

**public** **static** **void** main(String[] args)

{

System.***out***.println("i m(i)");

System.***out***.println("----------------");

**for**(**int** i=1;i<=20;i++)

{

System.***out***.printf("%2d %.4f\n",i,*sum*(i));

*sum*(i);

}

}

**public** **static** **double** sum(**int** i)

{

**double** sum=0;

**for**(**double** j=1;j<=i;j++)

{

sum+=j/(j+1);

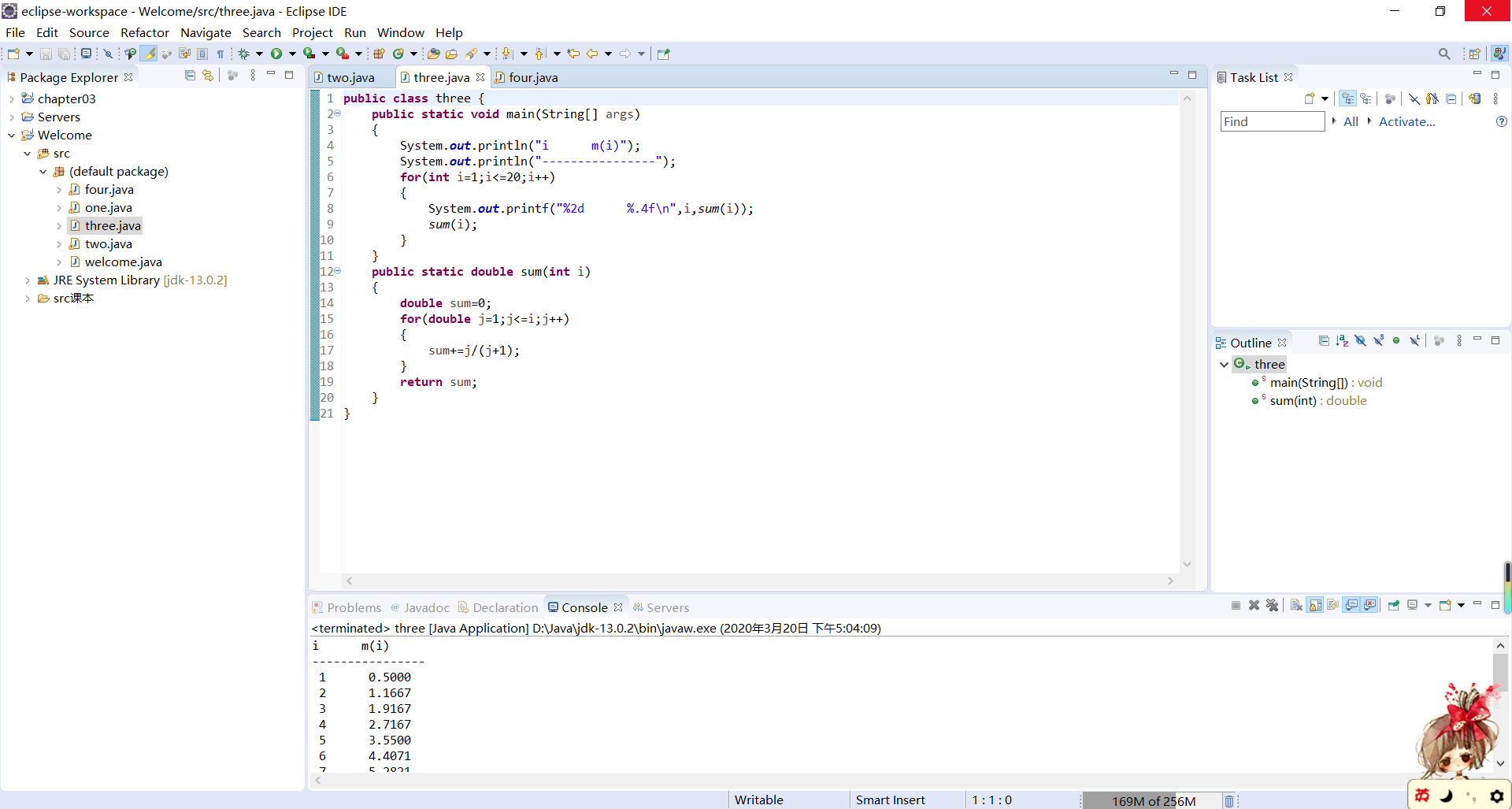
}

**return** sum;

}

}

截图：



6.18

代码：

**import** java.util.Scanner;

**public** **class** four {

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

System.***out***.println("Enter a password");

String password=input.next();

**if**(*isValid*(password))

System.***out***.println("Valid password");

**else**

System.***out***.println("Invalid password");

}

**public** **static** **boolean** isValid(String pass)

{

**int** count=0;

**if**(pass.length()>=8)

{

**for**(**int** i=0;i<pass.length();i++)

{

**if**((pass.charAt(i)<=57&&pass.charAt(i)>=48))

{

count++;

}

**else** **if**((pass.charAt(i)<=89&&pass.charAt(i)>=65)||(pass.charAt(i)<=122&&pass.charAt(i)>=97))

{

**continue**;

}

**else**

**return** **false**;

}

**if**(count>=2)

{

**return** **true**;

}

**else**

**return** **false**;

}

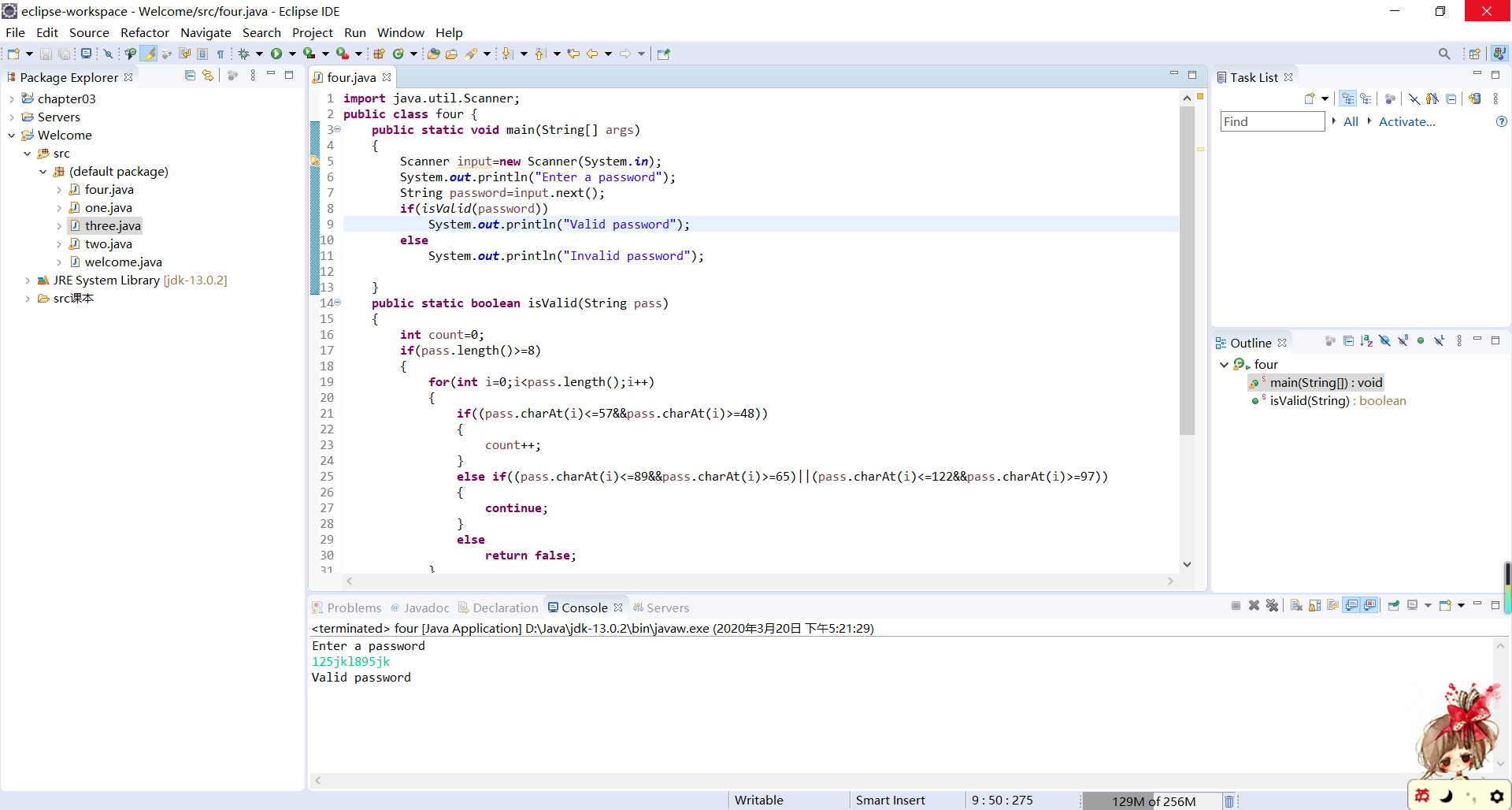
**else**

**return** **false**;

}

}

截图：



6.23

代码：

**import** java.util.Scanner;

**public** **class** five {

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

System.***out***.println("Enter a string and a char");

String s=input.next();

**char** a= input.next().charAt(0); //输入一个char

System.***out***.println("the count is "+*count*(s,a));

}

**public** **static** **int** count(String str,**char** a)

{

**int** count=0;

**for**(**int** i=0;i<str.length();i++)

{

**if**(str.charAt(i)==a)

{

count++;

}

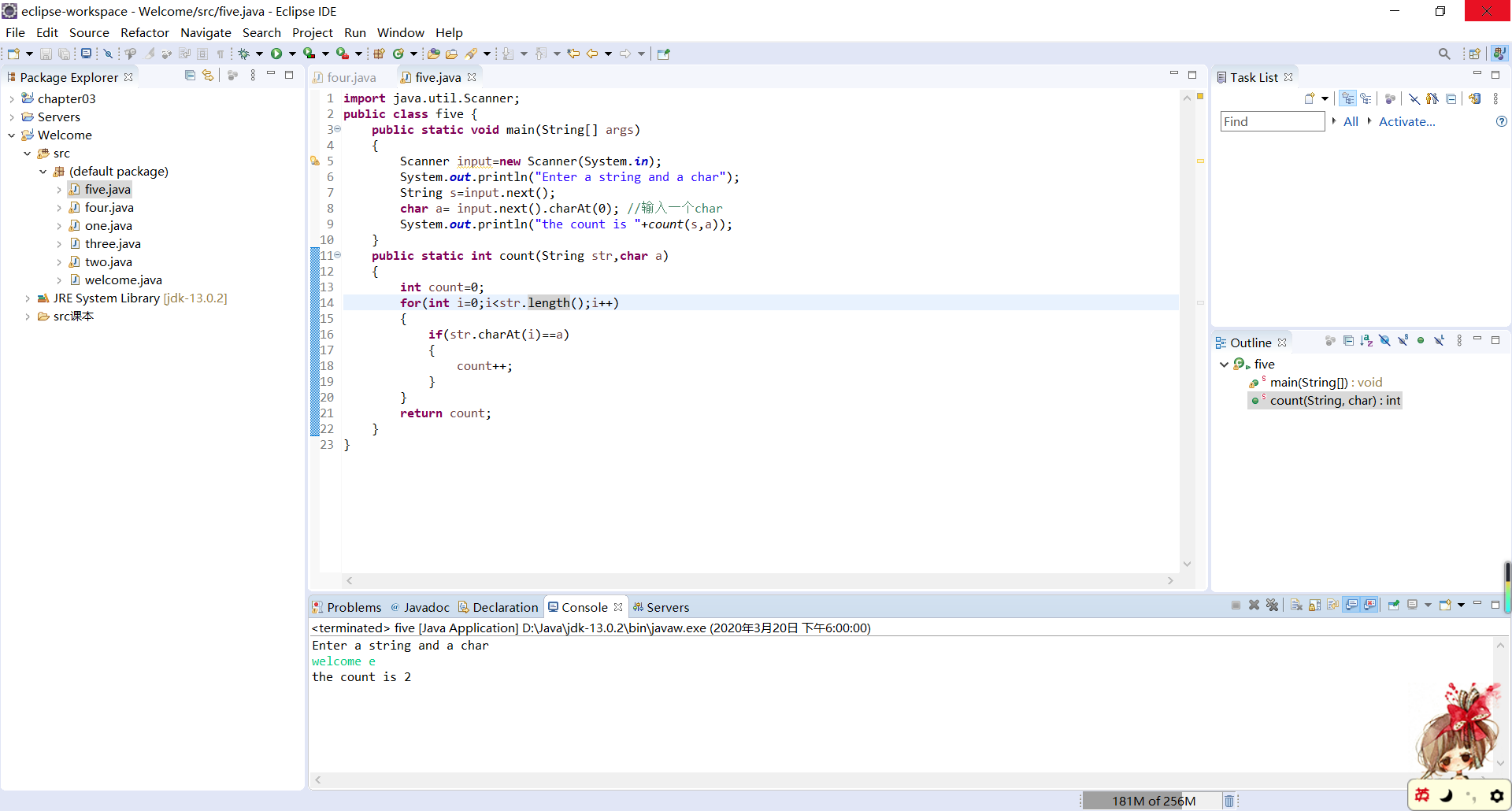
}

**return** count;

}

}

截图：



6.28

代码：

**public** **class** six {

**public** **static** **void** main(String[] args)

{

System.***out***.println("Enter the Mersenne prime:");

System.***out***.println("p 2^p-1");

System.***out***.println("--------------");

**for**(**int** i=2;i<=31;i++)

{

**if**(*isPrime*(i))

{

**for**(**int** j=1;j<=Math.*pow*(i,2);j++)

{

**if**(i==Math.*pow*(2, j)-1)

{

System.***out***.println(j+" "+i);

**break**;

}

}

}

}

}

**public** **static** **boolean** isPrime(**int** p)

{

**for**(**int** i=2;i<p;i++)

{

**if**(p%i==0)

**return** **false**;

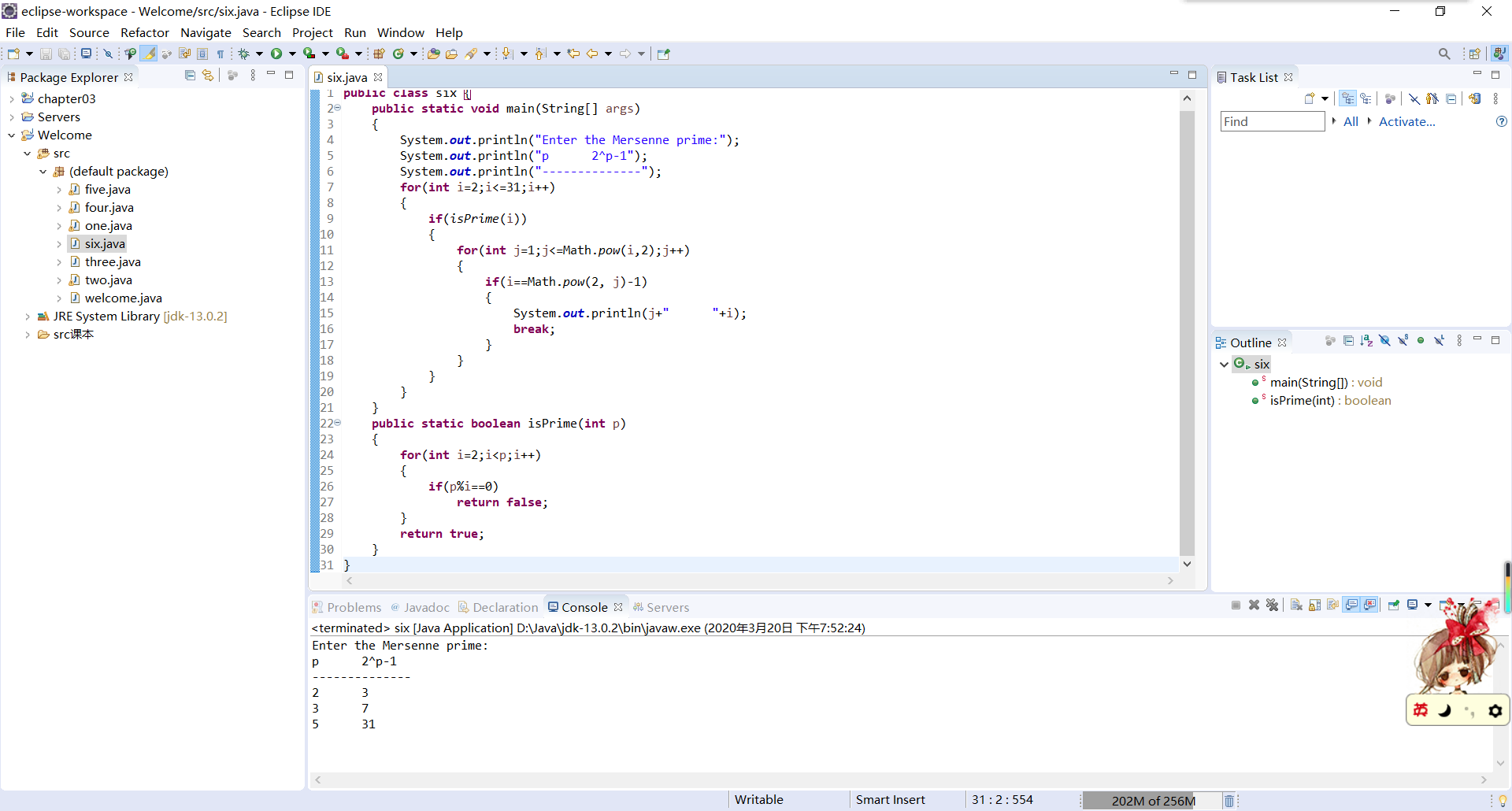
}

**return** **true**;

}

}

截图：



6.29

代码：

**public** **class** seven {

**public** **static** **void** main(String[] args)

{

**for**(**int** i=2;i<1000;i++)

{

**if**(*isPrime*(i)&&*isPrime*(i+2))

{

**int** temp=i+2;

System.***out***.println("( "+i+" , "+temp+" )");

}

}

}

**public** **static** **boolean** isPrime(**int** p)

{

**for**(**int** i=2;i<p;i++)

{

**if**(p%i==0)

**return** **false**;

}

**return** **true**;

}

}

截图：

