Algorithm

Aim: To print the prime palindrome numbers and their total frequency within given range.

1). Start

2). main() – a). Input two numbers m and n as the range.

b). if(m<n && m<3000 && n < 3000)

```
{
   System.out.println("\nTHE PRIME PALINDROME INTEGERS ARE : ");
   while(m<=n)
   {
      if(m==1)
      {
         m++;
         continue;
      }
      if(prime(m) && palindrome(m))
      {
         main_count++;
         System.out.print(m + ", ");
      }
      m++;
   }

   System.out.println("\n\nFREQUENCY OF PRIME PALINDROME INTEGERS : "+main_count);
}
```

c). else

```
System.out.println("\nOUT OF RANGE");
```

3). boolean prime(int m) – Function to check whether the number is prime.

a). for(int i=2;i<=m/2;i++)
{
if(m%i==0)
return false;
}

b). return true;

4). boolean palindrome(int m) – Function to check whether the number is palindrome.

a). int copy = m;
int reversed_number = 0;

b). while(copy>0)
{
int d = copy%10;
reversed_number = reversed_number*10+d;
copy/=10;
}

c). if(reversed_number == m)
return true;

d). else
return false;

4). Stop