

```
boolean primetest1(int n):
```

```
integer:    i
```

```
boolean:    isprime
```

```
if (n < 2)  error
```

```
if (n == 2) return true
```

```
isprime = true
```

```
for i from 2 to n-1
```

```
    if n%i == 0
```

```
        isprime = false
```

```
return isprime
```

```
boolean primetest2(int n):
```

```
integer :    i
```

```
boolean:    isprime
```

```
if (n < 2)  error
```

```
if (n == 2) return true
```

```
isprime = true
```

```
for i from 2 to sqrt(n)
```

```
    if n%i == 0
```

```
        isprime = false
```

```
return isprime
```

```
boolean primetest3(int n):
```

```
integer:    i
```

```
boolean:    isprime
```

```
if (n < 2)  error
```

```
if (n == 2) return true
```

```
isprime = true
```

```
for i from 2 to sqrt(n)
```

```
    if n%i == 0
```

```
        isprime = false
```

```
        break
```

```
return isprime
```

```
void primelist1(int n):
```

```
integer:    i, j
```

```
boolean:    isprime
```

```
print "2 is prime"
```

```
for j from 3 to n:
```

```
    isprime = true
```

```
    for i from 2 to j-1
```

```
        if j%i == 0
```

```
            isprime = false
```

```
    if isprime
```

```
        print "j is prime"
```

```
return( )
```

```
void primelist2(int n):
```

```
integer:    i, j
```

```
boolean:    isprime
```

```
print "2 is prime"
```

```
for j from 3 to n:
```

```
    isprime = true
```

```
    for i from 2 to Sqrt( j )
```

```
        if j%i == 0
```

```
            isprime = false
```

```
    if isprime
```

```
        print "j is prime"
```

```
return( )
```

```
void primelist3(int n):
```

```
integer:    i, j
```

```
boolean:    isprime
```

```
print "2 is prime"
```

```
for j from 3 to n:
```

```
    isprime = true
```

```
    for i from 2 to Sqrt( j )
```

```
        if j%i == 0
```

```
            isprime = false
```

```
            break
```

```
    if isprime
```

```
        print "j is prime"
```

```
return( )
```

```
void primelist4(int n):
```

```
integer:    i, j
```

```
boolean:    isprime
```

```
arraylist<integer> :  primelist
```

```
primelist.add(2)
```

```
for j from 3 to m:
```

```
    isprime = true
```

```
    for i from 0 to primelist.size()-1
```

```
        if j % primelist.get(i) == 0
```

```
            isprime = false
```

```
            break
```

```
    if isprime
```

```
        print "j is prime"
```

```
        primelist.add(j)
```

```
for i from 0 to primelist.size()-1
```

```
    print primelist.get(i) + " is prime"
```

```
return( )
```