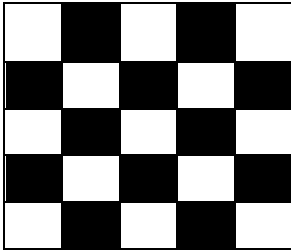


1. Napisati potprogram kojim se za zadati niz prirodnih brojeva X dužine n, formira niz Y kao suma prostih delilaca odgovarajućeg elementa niza X.
 2. Napisati potprogram kojim se za zadatu kvadratnu matricu A dimenzije m, formira niz X kao suma elemenata matrice A po vrstama gde su elementi prvo pomnoženi konstantom p i sabrani sa q ($p*a(i,j)+q$). Elementi matrice A su prirodni brojevi.
 3. Napisati glavni program kojim se iz prvog radnog lista učitavaju broj m i kvadratna matrica Q dimenzije m. Formirati niz R od suma elemenata matrice Q po vrstama gde se elementi treće kolone množe sa 15 i sabraju sa 20. Formirati niz S kao sumu prostih delilaca odgovarajućeg elementa niza R. Upisati nizove R i S u drugom radnom list. Elementi matrice Q su prirodni brojevi.
1. Napisati potprogram kojim se od učitano prirodnog broj M formira novi broj tako da ne sadrži cifru 9 u svom zapisu. Primer: 1239495 : 12345
 2. Napisati potprogram kojim se za zadatu kvadratnu matricu A dimenzije m, formira niz X kao suma elemenata matrice A u šahovskom rasporedu elemenata po vrstama.



3. Napisati glavni program kojim se iz prvog radnog lista učitavaju broj m i kvadratna matrica Q dimenzije m. Formirati niz R kao suma elemenata matrice Q u šahovskom rasporedu elemenata po vrstama. Formirati niz S od odgovarajućih elemenata niza R tako da ne sadrže cifru 9 u svom zapisu. Upisati nizove R i S u drugom radnom list. Elementi matrice Q su prirodni brojevi.
1. Napisati potprogram kojim se za učitani broj M određuje suma njegovih dvocifrenih delilaca.
 2. Napisati potprogram koji za zadatu kvadratnu matricu A reda n formira niz čiji su elementi jednaki zbiru elemenata dijagonala paralelnih sporednoj.
 3. Napisati glavni program kojim se iz aktivnog radnog lista učitavaju broj m i kvadratna matrica Q reda m. Formirati niz R od zbira elemenata dijagonala paralelnih sporednoj. Formirati niz P u kome se nalaze zbrovi dvocifrenih delilaca odgovarajućih elemenata niza R. Upisati nizove R i P u novi radni list.

```

Attribute VB_Name = "Module1"
Option Explicit
Option Base 1

Sub noviNiz(n As Long, x() As Long, y() As Long)
Dim i As Long, j As Long, p As Boolean, k As Long

For i = 1 To n
    y(i) = 0
    For j = 2 To x(i) / 2
        If x(i) Mod j = 0 Then
            p = True
            For k = 2 To j / 2
                If j Mod k = 0 Then
                    p = False
                    Exit For
                End If
            Next
            If p Then
                y(i) = y(i) + j
            End If
        End If
    Next
Next
End Sub

Sub noviNiz_2(n As Long, x() As Long, y() As Long)
Dim i As Long, j As Long

For i = 1 To n
    y(i) = 0
    For j = 2 To x(i) / 2
        If x(i) Mod j = 0 And prost(j) = 1 Then
            y(i) = y(i) + j
        End If
    Next
Next
End Sub

Function prost(m As Long) As Long
Dim i As Long

prost = 1
For i = 2 To m / 2
    If m Mod i = 0 Then
        prost = 0
        Exit For
    End If
Next
End Function

```

```
Sub nizMatrica(m As Long, a() As Long, x() As Long, p As Long, q As Long)  
Dim i As Long, j As Long
```

```
For i = 1 To m  
    x(i) = 0  
    For j = 1 To m  
        x(i) = x(i) + p * a(i, j) + q  
    Next  
Next
```

```
End Sub
```

```
Sub z1()
```

```
Dim m As Long, q(100, 100) As Long, r(100) As Long, s(100) As Long  
Dim i As Long, j As Long, k1 As Long, k2 As Long  
k1 = 15: k2 = 20  
Worksheets("Sheet1").Activate  
m = Cells(1, 1)  
For i = 1 To m  
    For j = 1 To m  
        q(i, j) = Cells(i + 1, j)  
    Next  
Next
```

```
Call nizMatrica(m, q, r, k1, k2)  
Call noviNiz(m, r, s)
```

```
Worksheets("Sheet2").Activate  
For i = 1 To m  
    Cells(i, 1) = r(i)  
    Cells(i, 2) = s(i)  
Next  
End Sub
```

```
Function nb(m As Long) As Long
```

```
Dim c As Long, x(100) As Long, br As Long  
Dim i As Long  
br = 0  
Do While m > 0  
    c = m Mod 10  
    m = Fix(m / 10)  
    If c <> 9 Then  
        br = br + 1  
        x(br) = c  
    End If  
Loop  
nb = 0  
For i = br To 1 Step -1  
    nb = nb * 10 + x(i)  
Next  
End Function
```

```
Sub pp2(m As Long, a() As Long, x() As Long)
```

```
Dim i As Long, j As Long
```

```
For i = 1 To m Step 2
```

```
    x(i) = 0
```

```
    For j = 2 To m Step 2
```

```
        x(i) = x(i) + a(i, j)
```

```
    Next
```

```
Next
```

```
For i = 2 To m Step 2
```

```
    x(i) = 0
```

```
    For j = 1 To m Step 2
```

```
        x(i) = x(i) + a(i, j)
```

```
    Next
```

```
Next
```

```
End Sub
```

```
Sub pp2_2(m As Long, a() As Long, x() As Long)
```

```
Dim i As Long, j As Long
```

```
For i = 1 To m
```

```
    x(i) = 0
```

```
    For j = 1 To m
```

```
        If i Mod 2 = 1 And j Mod 2 = 0 Then
```

```
            x(i) = x(i) + a(i, j)
```

```
        ElseIf i Mod 2 = 0 And j Mod 2 = 1 Then
```

```
            x(i) = x(i) + a(i, j)
```

```
        End If
```

```
    Next
```

```
Next
```

```
End Sub
```

```
Sub z2()
```

```
Dim m As Long, q(100, 100) As Long, r(100) As Long, s(100) As Long
```

```
Dim i As Long, j As Long
```

```
Worksheets("Sheet1").Activate
```

```
m = Cells(1, 1)
```

```
For i = 1 To m
```

```
    For j = 1 To m
```

```
        q(i, j) = Cells(i + 1, j)
```

```
    Next
```

```
Next
```

```
Call pp2(m, q, r)
```

```
For i = 1 To m
```

```
    s(i) = nb(r(i))
```

```
Next
```

```
Worksheets("Sheet2").Activate
```

```
For i = 1 To m
```

```
    Cells(i, 1) = r(i)
```

```
    Cells(i, 2) = s(i)
```

```
Next
```

```
End Sub
```

Function zbDvocif(m As Long) As Long

```
Dim i As Long
zbDvocif = 0
For i = 10 To i/2
    If m Mod i = 0 AND i < 100 Then zbDvocif = zbDvocif + i
    End If
Next
End Function
```

Sub pp3(m As Long, a() As Long, b() As Long, k As Long)

```
Dim i As Long, j As Long

For k = 1 To 2 * m - 1
    b(k) = 0
    For i = 1 To m
        For j = 1 To m
            If i + j = k + 1 Then
                b(k) = b(k) + a(i, j)
            End If
        Next
    Next
Next

k = k - 1
End Sub
```

Sub z3()

```
Dim m As Long, q(100, 100) As Long, r(100) As Long, s(100) As Long
Dim i As Long, j As Long

Worksheets("Sheet1").Activate
m = Cells(1, 1)
For i = 1 To m
    For j = 1 To m
        q(i, j) = Cells(i + 1, j)
    Next
Next

Next

Call pp2(m, q, r, s)
For i = 1 To s
    p(i) = zbDvocif(r(i))
Next

Worksheets("Sheet2").Activate
For i = 1 To s
    Cells(i, 1) = r(i)
    Cells(i, 2) = p(i)
Next

End Sub
```