

C)

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int m, k, p = 1, c;
```

```
    cin >> m >> k;
```

```
    while (m && k)
```

```
    {
```

```
        c = m % 10;
```

```
        if (c % 2 == 1)
```

```
            p *= c;
```

```
        m /= 10;
```

```
        k--;
```

```
    }
```

```
    cout << p;
```

```
    return 0;
```

```
}
```

d) citeste m, k

p ← 1

pentru i ∈ 1, k executa

 dacă m ≠ 0 atunci

 c ← m % 10

 dacă c % 10 = 1 atunci

 p ← p * c

 m = ⌊m / 10⌋

 m = ⌊m / 10⌋

scrie p

5)

```
#include <iostream>
#include <limits>
using namespace std;
```

```
int main()
```

```
{
```

```
    int a[10][10], m, n, c, i, j
```

```
    cin >> m >> n;
```

```
    for (i = 1; i <= m; i++)
```

```
        for (j = 1; j <= n; j++)
```

```
            cin >> a[i][j];
```

```
    for (i = 1; i <= m; i++)
```

```
    {
```

```
        c = INT_MAX;
```

```
        for (j = 1; j <= n; j++)
```

```
            if (a[i][j] < c)
```

```
                c = a[i][j];
```

```
        cout << c;
```

```
    }
```

```
    return 0;
```

```
}
```

```
a) void p ( int a[], int k, int &max)
```

```
{
```

```
    max = INT_MIN;
```

```
    for (i = 1; i <= k; i++)
```

```
        if (a[i] > max)
```

```
        if (a[i] > max)
```

```
            max = a[i];
```

```
}
```

b)

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{  
    int n, m, x[101], v[101], maxi = 0;
```

```
    cin >> n;
```

```
    for (int i = 1; i <= n; i++)  
        cin >> x[i];
```

```
    for (int i = 1; i <= n; i++)
```

```
    {  
        p(x, i, maxi);  
        v[i] = maxi;
```

```
    }  
    for (int i = 1; i <= n; i++)  
        cout << v[i] << " ";  
    return 0;
```

```
}
```


4.

```
include <iostream>
```

```
using namespace std;
```

```
int p ( int nr )
```

```
{
```

```
    if (nr < 2)
```

```
        return 0;
```

```
    for (int d = 2, d * d <= nr; d++)
```

```
        if ( ! (nr % d) )
```

```
            return 0;
```

```
    return 1;
```

```
}
```

```
int main ()
```

```
{
```

```
    int n, nr, c = 0;
```

```
    cin >> nr;    cin >> n;
```

```
    for (int i = 1; i <= n; i++)
```

```
    {
```

```
        cin >> nr;
```

```
        if ( p(nr) )
```

```
            c++;
```

```
    }
```

```
    cout << c;
```

```
    return 0;
```

```
}
```