

```

1 // do_while_prime_number.cpp
2 //
3 #ifdef _WIN32
4     #include <tchar.h>
5     #include <conio.h>
6 #elif (defined __linux__) || (defined _AIX) || (defined __APPLE__)
7     #typedef char _TCHAR;
8     #define _tmain main
9 #endif
10
11 #include <stdio.h>
12 #include <iostream>
13 using namespace std;
14
15 void my_getch();
16
17 int _tmain(int argc, _TCHAR* argv[])
18 {
19     unsigned a, del, podiel, zv, prvocislo, delitel;
20
21     cout << "\nZadajte kladne cele cislo a program zisti, ci je to prvocislo.\n\n";
22     cout << "  a = ";
23     cin >> a;
24     del = 2;
25     prvocislo = 1;
26     delitel = 0;
27
28     if (a <= 0)
29         cout << "\n  Nezdali ste kladne cislo!";
30     else {
31         do {
32             podiel = a / del;
33             zv = a % del;
34             del++;
35             if (zv == 0) {
36                 prvocislo = 0;
37                 delitel = del;
38                 del = podiel + 1;
39             }
40         } while (podiel > del);
41
42         if (prvocislo == 1)
43             cout << "\n  " << a << " je prvocislo.";
44         else
45             cout << "\n  " << a << " je delitelne cislom " << --delitel << ".";
46     }
47
48     my_getch();
49     return 0;
50 }
51
52 void my_getch()
53 {
54     #ifdef _WIN32
55         _getch();
56     #else
57         cout << endl;
58     #endif
59 }

```