

```
1 // control_structures.cpp
2 //
3 #ifdef _WIN32
4     #include <tchar.h>
5     #include <conio.h>
6 #elif (defined __linux__) || (defined _AIX)
7     typedef char _TCHAR;
8     #define _tmain main
9 #endif
10
11 #include <stdio.h>
12 #include <math.h>
13 #include <set>
14 #include <iostream>
15 using namespace std;
16
17 void my_getch();
18
19 int _tmain(int argc, _TCHAR* argv[])
20 {
21     short i, j, n, x[10];
22
23     std::set<short> MySet;
24     std::set<short>::iterator it;
25
26     MySet.clear();
27     cout << "\nZadajte cele cislo rovne alebo vacsie ako 5"
28         << " a rovne alebo mensie nez 10!\n = ";
29     do
30         cin >> n;
31     while (n < 5 || n>10);
32
33     cout << "\nZadajte " << n << " celych cisel oddelenych medzerou: ";
34     for (i = 0; i < n; i++)
35         cin >> x[i];
36
37     for (i = 0; i < n; i++)
38         MySet.insert(x[i]);
39
40     cout << "\nPrvky mnoziny MySet su: ";
41     for (it = MySet.begin(); it != MySet.end(); ++it)
42         cout << *it << " ";
43
44     cout << "\n\nVypis (*it > x[2]) ? (cout << -( *it) << \" \")"
45         << " : (cout << *it << \" \"): ";
46     for (it = MySet.begin(); it != MySet.end(); ++it)
47         *it > x[2] ? cout << -( *it) << " " : cout << *it << " ";
48
49     cout << "\n\nPrvky mnoziny MySet s podmienkou if (*it == x[2]) break; su: ";
50     for (it = MySet.begin(); it != MySet.end(); ++it) {
51         cout << *it << " ";
52         if (*it == x[2])
53             break;
```

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54     }
55
56     cout << "\n\nVypis for(it = MySet.begin(), j = 0; it != MySet.end(), "
57         << " j < n; ++it, j += 2): ";
58     for (it = MySet.begin(), j = 0; it != MySet.end(), j < n; ++it, j += 2)
59         cout << *it << " ";
60
61     cout << "\n\nPrvky množiny MySet s podmienkou if (*it == x[2]) goto jump; su: ";
62     for (it = MySet.begin(); it != MySet.end(); ++it) {
63         cout << *it << " ";
64         if (*it == x[2])
65             goto jump;
66     }
67
68     cout << "Tato sprava sa na obrazovku nevypise!";
69
70     jump:
71     cout << "\n\nPrvky množiny MySet s podmienkou if (*it == x[2]) continue; su: ";
72     for (it = MySet.begin(); it != MySet.end(); ++it) {
73         if (*it == x[2])
74             continue;
75         cout << *it << " ";
76     }
77
78     cout << "\n\nPrvky množiny MySet s podmienkou if(*it >= x[1]"
79         << " && *it <= x[3]) su: ";
80     for (it = MySet.begin(); it != MySet.end(); ++it)
81         if (*it >= x[1] && *it <= x[3])
82             cout << *it << " ";
83
84     for (i = 1; i < n; i += 2) // i+=2 znamena i = i+2
85         MySet.erase(x[i]);
86
87     cout << "\n\nPrvky množiny MySet po vymazani kazdeho druheho prvku su: ";
88     for (it = MySet.begin(); it != MySet.end(); ++it)
89         cout << *it << " ";
90
91     cout << "\n\nVetvenie switch bude vysvetlene v nasledujucej ukazke.";
92     cout << "\n\nPrikaz return je pouzity napr. na konci kazdeho programu.";
93
94     my_getch();
95     return 0;
96 }
97
98 void my_getch()
99 {
100 #ifdef _WIN32
101     _getch();
102 #else
103     cout << endl;
104 #endif
105 }
```