```
Swap.cpp
30.10.2019 17:19:21
                                                                         Page 1/1
   * Letsch Informatik *
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                                                     CH-8636 Wald
  //
            Beratung, Ausbildung und Realisation in Software-Engineering
  // Project : Master of Advanced Studies in Software-Engineering MAS-SE 2019
            : Übung 1 / Aufgabe 3: Swap
: Thomas Letsch
  // Title
   // Author
  // Tab-Width : 2
   * Description: Einfache Anwendungen von Referenzen u. Zeigern.
10
  * $Revision : 1.10 $ $Date: 2019/10/30 17:19:47 $
  3
                                           5
                                                   6
  //345678901234567890123456789012345678901234567890123456789012345678901234567890
14
  15
16
17
  #include <iostream>
  using std::cout;
18
  using std::endl;
19
20
  int swapMaxRefs(int&, int&);
int swapMaxPtrs(int*, int*);
21
22
  int main() {
24
25
    cout << "Swap with References:" << endl;</pre>
26
27
    int i1 = 1;
    int i2 = 2;
28
    int max = swapMaxRefs(i1, i2);
29
30
                        // Ausgabe: 2 // Ausgabe: 2
    cout << max << endl;</pre>
31
32
    cout << i1 << endl;</pre>
    cout << i2 << endl;</pre>
                       // Ausgabe: 1
33
34
    cout << "Swap with Pointers:" << endl;</pre>
35
36
    i1 = 1;
    i2 = 2;
37
    max = swapMaxPtrs(&i1, &i2);
38
    39
    cout << i1 << endl;</pre>
40
    cout << i2 << endl;</pre>
                       // Ausgabe: 1
41
    return 0;
43
44
45
  int swapMaxRefs(int& i1, int& i2) {
   int buffer = i1;
48
    i1 = i2;
49
    i2 = buffer;
50
    return i1 > i2 ? i1 : i2;
51
52
53
  int swapMaxPtrs(int* i1, int* i2) {
54
    int buffer = *i1;
55
    *i1 = *i2;
57
    *i2 = buffer;
    return *i1 > *i2 ? *i1 : *i2;
58
59
60
62
63
  /* Session-Log:
64
65
  Swap with References:
67
68
69
  Swap with Pointers:
70
72
  1
73
74
75
```