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 3
      Laboratoire : Labol
      Fichier : Labol.cpp
      Auteur(s) : Ganquillet, Parrino et Scharwath
 6
                  : 02.03.2020
 7
 8
      But
                    : Ce programme teste les différentes fonctionnalités de la classe Temps.
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      Remarque(s): Ce test a été fait avec des valeurs de temps réelles (heures [0-23],
                     minutes et secondes [0-59])
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      Compilateur : MinGW-g++ 6.3.0
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15
     #include "Temps.h"
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17
     #include <cstdlib>
18
     #include <iostream>
19
20
     using namespace std;
21
22
     int main() {
23
24
        Temps t1{ 5, 10, 2},
               t2(1,40),
t3(12,25,33);
25
26
27
       cout << "t1 : " << t1 << endl;
28
        cout << "t2 : " << t2 << endl;
29
30
        cout << "t3 : " << t3 << endl;
        cout << "heure courante : " << Temps(time(NULL)) << endl;</pre>
31
        cout << "Constructeur par defaut : " << Temps() << endl;</pre>
32
33
       cout << endl;
34
       cout << boolalpha;
35
36
        cout << "Comparateurs :" << endl;</pre>
        cout << t1 << " == " << t2 << " = " << (t1 == t2) << endl;
37
        cout << t2 << " == " << t2 << " = " << (t2 == t2) << endl;
38
        cout << t1 << " != " << t2 << " = " << (t1 != t2) << endl;
39
        cout << t1 << " < t2 << " = " << (t1 < t2) << endl; cout << t1 << " > " << t2 << " = " << (t1 > t2) << endl;
40
41
        cout << t1 << " <= " << t2 << " = " << (t1 <= t2) << endl;
42
        cout << t1 << " >= " << t2 << " = " << (t1 >= t2) << endl;
43
44
       cout << endl;
45
       cout << "addition / soustraction :" << endl;
cout << t1 << " + " << t2 << " = " << (t1 + t2) << endl;</pre>
46
47
       cout << t1 << " - " << t2 << " = " << (t1 - t2) << endl;
48
        cout << endl;
49
50
51
        cout << "getters :" << endl;</pre>
        cout << "t1.getHeures() = " << t1.getHeures() << endl;
cout << "t1.getMinutes() = " << t1.getMinutes() << endl;</pre>
52
53
        cout << "t1.getSecondes() = " << t1.getSecondes() << endl;</pre>
54
55
       cout << endl;
56
57
        cout << "setters :" << endl;</pre>
58
        t1.setHeures(10);
        cout << "t1.setHeures(10) -> t1 = " << t1 << endl;
59
60
        t1.setMinutes(12);
        cout << "t1.setMinutes(12) -> t1 = " << t1 << endl;
61
62
        t1.setSecondes(30);
63
        cout << "t1.setSecondes(30) -> t1 = " << t1 << endl;</pre>
        cout << endl;</pre>
64
65
66
        cout << "auto incrementation :" << endl;</pre>
        cout << t1 << " += " << t3 << " = "; cout << (t1 += t3) << endl;
67
        cout << t1 << " -= " << t3 << " = "; cout << (t1 -= t3) << endl;
68
69
        cout << "++(" << t1 << ") = "; cout << (++t1) << endl;
70
71
        cout << '(' << t1 << ")++ = "; cout << (t1++) << endl;
72
73
        cout << "--(" << t1 << ") = "; cout << (--t1) << endl;
        cout << '(' << t1 << ")-- = "; cout << (t1--) << endl;
74
75
        cout << endl;</pre>
76
77
        cout << "conversion :" << endl;</pre>
```