

joinCubes-byValue.cpp

```
11  /*
12   * Creates a new Cube that contains the exact volume
13   * of the volume of the two input Cubes.
14   */
15  Cube joinCubes(Cube c1, Cube c2) {
16      double totalVolume = c1.getVolume() + c2.getVolume();
17
18      double newLength = std::pow( totalVolume, 1.0/3.0 );
19
20      Cube result(newLength);
21      return result;
22  }
23
24
25
26
28  int main() {
29      Cube *c1 = new Cube(4);
30      Cube *c2 = new Cube(5);
31
32      Cube c3 = joinCubes(*c1, *c2);
33
34      return 0;
35  }
```