

C++11 code 3.3.8: Sub-problem (3-3.f), `GlobalInverseQuad()`: seeking largest sub-triangle → [GitLab](#)

```
2 // I: Find sub-triangle with largest area and use its
3 // middle vertex as new "vertex 0".
4 unsigned int vt_zero_idx{0};
5 double max_area{0.0};
6 for (int l = 0; l < 4; ++l) {
7     const double sub_tri_area =
8         triaArea(vert.col(l), vert.col((l + 1) % 4), vert.col((l + 2) % 4));
9     if (sub_tri_area > max_area) {
10         vt_zero_idx = (l + 1) % 4;
11         max_area = sub_tri_area;
12     }
13 }
14 // vt_zero_idx stores the index of the vertex that will now
15 // be regarded as "pivotal vertex 0"
```