

365 **Compress number in vector:**

```
366 void compress(vector<int> &vec) {  
367     vector<int> val(vec.begin(), vec.end());  
368     sort(val.begin(), val.end());  
369     val.erase(unique(val.begin(), val.end()), val.end());  
370     for(auto &x:vec) x = lower_bound(val.begin(), val.end(), x) - val.begin();  
371 }
```