Extra

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```cpp
void explainExtra() {

    sort(a, a + n);
    sort(v.begin(), v.end());

    sort(a+2, a+4);

    sort(a, a+n, greater<int>);

    pair<int,int> a[] = {{1,2}, {2, 1}, {4, 1}};

    // sort it according to second element
    // if second element is same, then sort
    // it according to first element but in descending

    sort(a, a+n ,comp);

    // {4,1}, {2, 1}, {1, 2}};

    int num = 7;
    int cnt = __builtin_popcount();

    long long num = 165786578687;
    int cnt = __builtin_popcountll();

    string s = "123";

    do {
        cout << s << endl;
    } while(next_permutation(s.begin(), s.end()));
```

Sort (a+2, a+4)

$\{1, 5, \quad 4, \quad 3\}$

$\Rightarrow \{1, 5, 3, 4\}$

only this part will be sorted

descending order

Comparator:

Own way of sorting.

```cpp
bool comp(pair<int,int> p1, pair<int,int> p2) {
    if(p1.second < p2.second) return true;
    if(p1.second > p2.second) return false;
    // they are same

    if(p1.first > p2.first) return true;
    return false;
}
```

$\{ \cdot \}$ $\{ \quad \}$
  P1   P2