Aggressive Cows Code:

```
#include <iostream>
#include <algorithm>
using namespace std;
int N, C;
long long A[100000];
// check if a distance of x is possible between each cow
bool chk(int x)
{
  // greedy approach, put each cow in the first place
  int cows_placed = 1, last_pos = A[0];
  for (int i = 1; i < N; i++)
  {
    if ((A[i] - last_pos) >= x)
    {
      if (++cows_placed == C)
        return true;
      last_pos = A[i];
    }
```

```
  }
  return false;
}

void solve()
{
  cin >> N >> C;
  for (int i = 0; i < N; i++)
    cin >> A[i];
// sort our array
  sort(A, A + N);

  // binary search
  long long low = 0, high = 1000000000, mid, pos = 0;
  while (high >= low)
  {
    mid = (high + low) / 2;
    if (chk(mid))
    {
```

```
      low = mid + 1;
      pos = mid;
    }
    else
    {
      high = mid - 1;
    }
  }
  cout << pos << endl;
}

int main()
{
  int T;
  cin >> T;
  while (T--)
    solve();
  return 0;
}
```

Time Complexity:

Time complexity of Binary Search Tree is O(nlogn).