0x10 基础算法.md 2023/5/11

0x10 基础算法

0x11 逆序对

```
int merge_sort(int q[], int l, int r)
    if (1 >= r) return 0;
    int mid = 1 + r \gg 1;
    int res = merge_sort(q, 1, mid) + merge_sort(q, mid + 1, r);
    int i = 1, j = mid + 1, k = 0;
    while (i <= mid && j <= r)
        if (q[i] \leftarrow q[j]) \ tmp[k ++] = q[i ++];
        else
            res += mid - i + 1;
            tmp[k ++] = q[j ++];
        }
    while (i <= mid) tmp[k ++] = q[i ++];
    while (j <= r) tmp[k ++] = q[j ++];
    for (int i = 1, j = 0; i \leftarrow r; i + r, j + r) q[i] = tmp[j];
    return res;
}
```

0x12 ST 表

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```
T RMQ(int 1, int r)
{
    int k = log2(r - l + 1);
    return min(f[l][k], f[r - (1 << k) + 1][k], cmp);
}
};</pre>
```