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#include <bits/stdc++.h>
using namespace std;
const int logn = 21;
const int maxn = 2000001;
int f[maxn][logn + 1], Logn[maxn + 1];

int read() { // 快读
    ...//not important
}

void pre() { // 准备工作, 初始化
    Logn[1] = 0;
    Logn[2] = 1;
    for (int i = 3; i < maxn; i++) {
        Logn[i] = Logn[i / 2] + 1;
    }
}

int main() {
    int n = read(), m = read();
    for (int i = 1; i <= n; i++) f[i][0] = read();
    pre();
    for (int j = 1; j <= logn; j++)
        for (int i = 1; i + (1 << j) - 1 <= n; i++)
            f[i][j] = max(f[i][j - 1], f[i + (1 << (j - 1))][j - 1]); // ST表具体实现
    for (int i = 1; i <= m; i++) {
        int x = read(), y = read();
        int s = Logn[y - x + 1];
        printf("%d\n", max(f[x][s], f[y - (1 << s) + 1][s]));
    }
    return 0;
}
```

样题

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