Code Template for ACM-ICPC

UIT.HTH

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Code Template for ACM-ICPC, UIT.HTH $\,$

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1 DataStructures

1.1 RMQ

```
// index from 1
int table[MAXLOG][MAXN];
int numlog[MAXN];
void buildTable() {
   numlog[1] = 0;
   for (int i = 2; i <= N; i++)</pre>
       numlog[i] = numlog[i / 2] + 1;
   for (int i = 0; i <= numlog[N]; i++) {</pre>
       int curlen = 1 << i;</pre>
       for (int j = 1; j <= N; j++) {</pre>
           if (i == 0) {
               table[i][j] = a[j];
               continue;
           }
           table[i][j] = max(table[i - 1][j], table[i -
                1][j + curlen / 2]);
   }
}
int getMax(int 1, int r) {
   int curlog = numlog[r - 1 + 1];
   return max(table[curlog][1], table[curlog][r - (1
        << curlog) + 1]);
}
```