//RMQ

int maxl[N][20], minl[N][20]; int n, m, a[N];

void init\_RMQ(){

int l = int(log((double)n)/log(2.0));

for (int j=1;j<=l;j++)

for (int i=1; i + (1 << (j-1) ) - 1 <=n;++i)

minl[i][j] = min(minl[i][j-1], minl[i + (1 << (j-1) )][j-1]);}

void RMQ(int l, int r){

int k = int(log((double)(r-l+1))/log(2.0));

int a = min(minl[l][k], minl[r - (1<<k) + 1][k]);

printf("%d\n",a);}

int main(){

while (~scanf("%d", &n)) //n long m query{

for (int i=1;i<=n;++i){

scanf("%d", &a[i]);

maxl[i][0] = minl[i][0] = a[i];}

init\_RMQ(); int a, b; scanf("%d",&m);

while (m--){

scanf("%d %d", &a, &b);RMQ(a, b);}}