```cpp
1    #include<stdio.h>
2    #include<string.h>
3    #include<vector>
4    #include<algorithm>
5    #include<set>
6    #include<utility>
7    using namespace std;
8
9    #define MAX 112345
10   #define INF 1123456789
11   //#define DEBP
12
13   typedef vector<int> vi;
14   typedef pair<int, int> ii;
15
16   int ncomp, d[MAX], low[MAX], seen[MAX], st[MAX], comp[MAX], sn, tempo;
17   int ld[MAX], lp[MAX], li, vistp[MAX], tp[MAX], itp;
18
19   void tarjan(int u, vector<vi> &LG) {
20     int i, v;
21     st[sn++] = u; seen[u] = 1;
22     d[u] = low[u] = tempo++;
23     for (i = 0; i < (int)LG[u].size(); i++) {
24       v = LG[u][i];
25       if (!seen[v]) { tarjan(v, LG); low[u] = min(low[u], low[v]); }
26       else { low[u] = min(low[u], d[v]); }
27     }
28     if (d[u] == low[u]) {
29       do { v = st[--sn]; comp[v] = ncomp; d[v] = INF; } while (v != u);
30       ncomp++;
31     }}
32
33   void dfs(int u, vector<vi> &DAG) {
34     int i, v;
35     vistp[u] = 1;
36     for (i = 0; i < (int)DAG[u].size(); i++) {
37       v = DAG[u][i];
38       if (!vistp[v]) dfs(v, DAG);
39     }
40     tp[itp--] = u;
41   }
42
43   int main(void) {
44     int n, m, a, b, u, i, v, bolada;
45     scanf("%d %d", &n, &m);
46     vector<vi> LG(n);
47     for (u = 0; u < m; u++) {
48       scanf ("%d %d", &a, &b); a--; b--;
49       LG[a].push_back(b);
50     }
51     memset(d, 0, sizeof(d)); memset(low, 0, sizeof(low));
52     memset(seen, 0, sizeof(seen));
53     for (tempo = 1, u = ncomp = sn = 0; u < n; u++)
54       if (!d[u]) tarjan(u, LG);
55     vector<vi> DAG(ncomp);
56     set<ii> LDAG;
57     memset(ld, -1, sizeof(ld)); memset(lp, 0, sizeof(lp));
58     for (u = 0; u < n; u++)
59       for (li = i = 0; i < (int)LG[u].size(); i++) {
60         v = LG[u][i];
61         if (comp[u] != comp[v] && LDAG.find(ii(comp[u], comp[v])) == LDAG.end()) {
62           LDAG.insert(ii(comp[u], comp[v]));
63       DAG[comp[u]].push_back(comp[v]);
64         }}
65     memset(vistp, 0, sizeof(vistp));
66     for (itp = ncomp - 1, u = 0; u < ncomp; u++)
67       if (!vistp[u]) dfs(u, DAG);
68     for (bolada = 1, i = 0; i < ncomp - 1; i++)
69       bolada &= (LDAG.find(ii(tp[i], tp[i + 1])) != LDAG.end());
70     printf("%sBolada\n", bolada ? "" : "Nao ");
71     return 0;
72   }
```