```c
1    #include<stdio.h>
2    #include<string.h>
3
4    #define MAX 212345
5
6    int ft[MAX];
7
8    int rsq(int x) {
9      int s = 0;
10     while (x > 0) {
11       s += ft[x];
12       x -= (x & -x);
13     }
14     return s;
15   }
16
17   void insert(int x) {
18     while (x <= MAX) {
19       ft[x] += 1;
20       x += (x & -x);
21     }
22   }
23
24   int main(void) {
25     int pi, m, cp, na, a, b, qtdr, resp;
26     while (scanf("%d %d", &pi, &m) != EOF) {
27       resp = 0; memset(ft, 0, sizeof(ft));
28       while (m--) {
29         scanf("%d %d", &cp, &na);
30         a = (cp - pi <= 0) ? 1 : cp - pi;
31         b = cp + pi;
32         qtdr = rsq(b) - rsq(a - 1);
33         if (qtdr <= na) { insert(cp); resp++; }
34       }
35       printf("%d\n", resp);
36     }
37     return 0;
38   }
```