

```
1  #include <stdio>
2  #include <algorithm>
3
4  int A[100001];
5  int main() {
6      int N, K, x;
7      scanf("%d%d", &N, &K);
8      std::fill(A+1, A+(N+1), 0); // Init to zeros
9      for(int i = 0; i < K; ++i) {
10         scanf("%d", &x);
11         if(x >= 1 && x <= N)
12             ++A[x];
13     }
14
15     // Find maximum length of consecutive empty slots
16     int maxZeroConsec = 0;
17     int currentConsec = 0;
18     for(int i = 1; i <= N; ++i) {
19         if(A[i] == 0)
20             ++currentConsec;
21         else
22             currentConsec = 0;
23         if(currentConsec > maxZeroConsec)
24             maxZeroConsec = currentConsec;
25     }
26     printf("%d\n", maxZeroConsec);
27
28     // Find locations of maximum length
29     currentConsec = 0;
30     for(int i = 1; i <= N; ++i) {
31         if(A[i] == 0) {
32             ++currentConsec;
33             if(currentConsec == maxZeroConsec)
34                 printf("%d ", i);
35         } else {
36             currentConsec = 0;
37         }
38     }
39
40     return 0;
41 }
42
```