

For example, suppose that the 5 soldiers are A, B, C, D, and E. They chose integers 4,5,6,7, and 8 respectively. The name C and integer 2 are initially chosen. Then the order in which the soldiers are eliminated from the circle is D, A, B, and E leaving C as the last one and C will be signaled to escape.

What to deliver?

1. Write an algorithm for the above problem and implement the algorithm in C. Decide a suitable data structure. Trace the algorithm diagrammatically.
2. Write the ADT for your data structure with suitable operations in a header file.
3. Implement the application separately, making use of the ADT.
4. Write more test cases and test your program.
5. Design a user-friendly interface
