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# Problem statement:

Implement a menu-driven console application that provides the following functionalities:  
1. Read a list of integers from the keyboard.  
2. Print the entire list of numbers.  
3. Print to console the longest sequence that observes a given property. Each student will receive  
2 of the properties from the list provided below.  
4. Exit the application

Sequence properties:

1. Contains only prime numbers.

2. Sum of its elements is 10.

3. Contains a single number

4. All consecutive number pairs have at least 2 common digits

# Feature list

|  |
| --- |
| **Feature** |
| F1. Read list(integers) from the keyboard |
| F2. Print list |
| F3. Print the longest sequence with a given property |

## Tasks

|  |  |
| --- | --- |
| **Id** | **Description** |
| T1 | Console I/O |
| T2 | Check Property1 |
| T3 | Check Property2 |
| T4 | Check Property3 |
| T5 | Check Property4 |
| T6 | User Interface |

## Running scenario 1

|  |  |  |  |
| --- | --- | --- | --- |
|  | User | Program | Description |
| a | 1 | Enter command: |  |
| b | 3 | Give list size: |  |
| c | 2 | Give integer: |  |
| d | 4 | Give integer: |  |
| e | 4 | Give integer: |  |
| f | 2 | Enter command: |  |
| g |  | [2, 4, 4] |  |
| h | 3 | Enter command: |  |
| i |  | [2] |  |
| j | 4 | Enter command: |  |
| k |  | [2, 4, 4] |  |
| l | 0 | Enter command: |  |