```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Users\YoGeSh\AppData\Local\
JetBrains\IntelliJ IDEA 2023.3.3\lib\idea_rt.jar=61495:C:\Users\YoGeSh\AppData\Local\
JetBrains\IntelliJ IDEA 2023.3.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -
Dsun.stderr.encoding=UTF-8 -classpath C:\Users\YoGeSh\Desktop\SpringBoot\Java-List-
Operations-Collection-framework\target\classes org.example.Main
Total elements you want to add in 1st list :: 5
Enter the 5 elements(integer type) :: 5 4 3 2 1

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|


Enter your choice :: 1
normal list element
[5, 4, 3, 2, 1]

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
```

```
 |                                                |
 |------------------------------------------------|


Enter your choice :: 2
Search one element
Enter the search element :: 5
element present in the list ?? :: true

|------------------------------------------------|
|         CHOOSE YOUR OPERATION                  |
|------------------------------------------------|
|                                                |
|   1. Show normal list element                  |
|   2. Search one element                        |
|   3. Search multiple elements                  |
|   4. Remove by the index number                |
|   5. Remove multiple elements                  |
|   6. Size of list                              |
|   7. add a element                             |
|   8. combined the list of the element          |
|   9. Add an element in any index               |
|   10. Find an element by the index             |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element          |
|   13. Update an element of any index           |
|   0. Exit                                      |
|                                                |
|------------------------------------------------|


Enter your choice :: 2
Search one element
Enter the search element :: 7
element present in the list ?? :: false

|------------------------------------------------|
|         CHOOSE YOUR OPERATION                  |
|------------------------------------------------|
|                                                |
|   1. Show normal list element                  |
|   2. Search one element                        |
|   3. Search multiple elements                  |
|   4. Remove by the index number                |
|   5. Remove multiple elements                  |
|   6. Size of list                              |
|   7. add a element                             |
|   8. combined the list of the element          |
|   9. Add an element in any index               |
|   10. Find an element by the index             |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element          |
```

```
|   13. Update an element of any index      |
|   0. Exit                                 |
|                                           |
|-------------------------------------------|


Enter your choice :: 3
Search multiple element
How many values you want to search :: 5
Enter the 5 elements :: 1 2 3 8 9
present values :: [1, 2, 3]
not present values :: [8, 9]

|-------------------------------------------|
|         CHOOSE YOUR OPERATION             |
|-------------------------------------------|
|                                           |
|   1. Show normal list element             |
|   2. Search one element                   |
|   3. Search multiple elements             |
|   4. Remove by the index number           |
|   5. Remove multiple elements             |
|   6. Size of list                         |
|   7. add a element                        |
|   8. combined the list of the element     |
|   9. Add an element in any index          |
|   10. Find an element by the index        |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element     |
|   13. Update an element of any index      |
|   0. Exit                                 |
|                                           |
|-------------------------------------------|


Enter your choice :: 4
Remove element by the index number
Enter element index number which element you want to remove from the list  :: 0
successfully removed 0 index value from the list !!!

|-------------------------------------------|
|         CHOOSE YOUR OPERATION             |
|-------------------------------------------|
|                                           |
|   1. Show normal list element             |
|   2. Search one element                   |
|   3. Search multiple elements             |
|   4. Remove by the index number           |
|   5. Remove multiple elements             |
|   6. Size of list                         |
|   7. add a element                        |
|   8. combined the list of the element     |
|   9. Add an element in any index          |
|   10. Find an element by the index        |
|   11. Show Sorted List
```

```
|          (Warning :- if you sort the list once,
|          then you unable to see normal list.
|          After that you always see sorted list)
|    12. show index number of an element     |
|    13. Update an element of any index      |
|    0. Exit                                 |
|                                            |
|--------------------------------------------|


Enter your choice :: 4
Remove element by the index number
Enter element index number which element you want to remove from the list  :: 17
17 index not found in the list !!!
   because you enter only index between 0 to 3
  total size of list :: 4
  so index is not matched !!!

|--------------------------------------------|
|          CHOOSE YOUR OPERATION             |
|--------------------------------------------|
|                                            |
|    1. Show normal list element             |
|    2. Search one element                   |
|    3. Search multiple elements             |
|    4. Remove by the index number           |
|    5. Remove multiple elements             |
|    6. Size of list                         |
|    7. add a element                        |
|    8. combined the list of the element     |
|    9. Add an element in any index          |
|    10. Find an element by the index        |
|    11. Show Sorted List
|          (Warning :- if you sort the list once,
|          then you unable to see normal list.
|          After that you always see sorted list)
|    12. show index number of an element     |
|    13. Update an element of any index      |
|    0. Exit                                 |
|                                            |
|--------------------------------------------|


Enter your choice :: 1
normal list element
[4, 3, 2, 1]

|--------------------------------------------|
|          CHOOSE YOUR OPERATION             |
|--------------------------------------------|
|                                            |
|    1. Show normal list element             |
|    2. Search one element                   |
|    3. Search multiple elements             |
|    4. Remove by the index number           |
|    5. Remove multiple elements             |
|    6. Size of list                         |
|    7. add a element                        |
```

```
|   8. combined the list of the element     |
|   9. Add an element in any index          |
|   10. Find an element by the index        |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element     |
|   13. Update an element of any index      |
|   0. Exit                                 |
|                                           |
|-------------------------------------------|


Enter your choice :: 5
Remove multiple elements
total values you want to remove :: 6
enter the 6 elements :: 6 7 8 9 0 4
Removed element was present in the list :: [4]
Removed element was not present in the list :: [6, 7, 8, 9, 0]
So we are only able to remove this elements :: [4]

|-------------------------------------------|
|         CHOOSE YOUR OPERATION             |
|-------------------------------------------|
|                                           |
|   1. Show normal list element             |
|   2. Search one element                   |
|   3. Search multiple elements             |
|   4. Remove by the index number           |
|   5. Remove multiple elements             |
|   6. Size of list                         |
|   7. add a element                        |
|   8. combined the list of the element     |
|   9. Add an element in any index          |
|   10. Find an element by the index        |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element     |
|   13. Update an element of any index      |
|   0. Exit                                 |
|                                           |
|-------------------------------------------|


Enter your choice :: 1
normal list element
[3, 2, 1]

|-------------------------------------------|
|         CHOOSE YOUR OPERATION             |
|-------------------------------------------|
|                                           |
|   1. Show normal list element             |
|   2. Search one element                   |
|   3. Search multiple elements             |
```

```
 |   4. Remove by the index number           |
 |   5. Remove multiple elements             |
 |   6. Size of list                         |
 |   7. add a element                        |
 |   8. combined the list of the element     |
 |   9. Add an element in any index          |
 |   10. Find an element by the index        |
 |   11. Show Sorted List
 |         (Warning :- if you sort the list once,
 |         then you unable to see normal list.
 |         After that you always see sorted list)
 |   12. show index number of an element     |
 |   13. Update an element of any index      |
 |   0. Exit                                 |
 |                                           |
 |-------------------------------------------|


 Enter your choice :: 6
 Size of the list (total elements are) :: 3

 |-------------------------------------------|
 |         CHOOSE YOUR OPERATION             |
 |-------------------------------------------|
 |                                           |
 |   1. Show normal list element             |
 |   2. Search one element                   |
 |   3. Search multiple elements             |
 |   4. Remove by the index number           |
 |   5. Remove multiple elements             |
 |   6. Size of list                         |
 |   7. add a element                        |
 |   8. combined the list of the element     |
 |   9. Add an element in any index          |
 |   10. Find an element by the index        |
 |   11. Show Sorted List
 |         (Warning :- if you sort the list once,
 |         then you unable to see normal list.
 |         After that you always see sorted list)
 |   12. show index number of an element     |
 |   13. Update an element of any index      |
 |   0. Exit                                 |
 |                                           |
 |-------------------------------------------|


 Enter your choice :: 7
 Add a element
 Enter an element :: 5
 element add Successfully !!!!

 |-------------------------------------------|
 |         CHOOSE YOUR OPERATION             |
 |-------------------------------------------|
 |                                           |
 |   1. Show normal list element             |
 |   2. Search one element                   |
 |   3. Search multiple elements             |
```

```
 |   4. Remove by the index number           |
 |   5. Remove multiple elements             |
 |   6. Size of list                         |
 |   7. add a element                        |
 |   8. combined the list of the element     |
 |   9. Add an element in any index          |
 |   10. Find an element by the index        |
 |   11. Show Sorted List
 |         (Warning :- if you sort the list once,
 |         then you unable to see normal list.
 |         After that you always see sorted list)
 |   12. show index number of an element     |
 |   13. Update an element of any index      |
 |   0. Exit                                 |
 |                                           |
 |-------------------------------------------|


 Enter your choice :: 1
normal list element
[3, 2, 1, 5]

|-------------------------------------------|
|         CHOOSE YOUR OPERATION             |
|-------------------------------------------|
|                                           |
|   1. Show normal list element             |
|   2. Search one element                   |
|   3. Search multiple elements             |
|   4. Remove by the index number           |
|   5. Remove multiple elements             |
|   6. Size of list                         |
|   7. add a element                        |
|   8. combined the list of the element     |
|   9. Add an element in any index          |
|   10. Find an element by the index        |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element     |
|   13. Update an element of any index      |
|   0. Exit                                 |
|                                           |
|-------------------------------------------|


Enter your choice :: 8
Combined the lists
Total size of list:: 6
Enter the 6 elements :: 7 8 9 0 4 17
Combined list Successfully !!!

|-------------------------------------------|
|         CHOOSE YOUR OPERATION             |
|-------------------------------------------|
|                                           |
|   1. Show normal list element             |
```

```
|   2. Search one element                    |
|   3. Search multiple elements              |
|   4. Remove by the index number            |
|   5. Remove multiple elements              |
|   6. Size of list                          |
|   7. add a element                         |
|   8. combined the list of the element      |
|   9. Add an element in any index           |
|   10. Find an element by the index         |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element      |
|   13. Update an element of any index       |
|   0. Exit                                  |
|                                            |
|--------------------------------------------|
```

```
Enter your choice :: 1
normal list element
[3, 2, 1, 5, 7, 8, 9, 0, 4, 17]

|--------------------------------------------|
|          CHOOSE YOUR OPERATION             |
|--------------------------------------------|
|                                            |
|   1. Show normal list element              |
|   2. Search one element                    |
|   3. Search multiple elements              |
|   4. Remove by the index number            |
|   5. Remove multiple elements              |
|   6. Size of list                          |
|   7. add a element                         |
|   8. combined the list of the element      |
|   9. Add an element in any index           |
|   10. Find an element by the index         |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element      |
|   13. Update an element of any index       |
|   0. Exit                                  |
|                                            |
|--------------------------------------------|


Enter your choice :: 9
Add an element in any index
Enter the index number :: 0
Enter the value which  you add in 0 index :: 20
20 is add successfully in 0 index

|--------------------------------------------|
|          CHOOSE YOUR OPERATION             |
|--------------------------------------------|
```

```
 |                                                |
 |   1. Show normal list element                  |
 |   2. Search one element                        |
 |   3. Search multiple elements                  |
 |   4. Remove by the index number                |
 |   5. Remove multiple elements                  |
 |   6. Size of list                              |
 |   7. add a element                             |
 |   8. combined the list of the element          |
 |   9. Add an element in any index               |
 |   10. Find an element by the index             |
 |   11. Show Sorted List
 |         (Warning :- if you sort the list once,
 |         then you unable to see normal list.
 |         After that you always see sorted list)
 |   12. show index number of an element          |
 |   13. Update an element of any index           |
 |   0. Exit                                      |
 |                                                |
 |------------------------------------------------|


Enter your choice :: 1
normal list element
[20, 3, 2, 1, 5, 7, 8, 9, 0, 4, 17]

|------------------------------------------------|
|          CHOOSE YOUR OPERATION                 |
|------------------------------------------------|
|                                                |
|   1. Show normal list element                  |
|   2. Search one element                        |
|   3. Search multiple elements                  |
|   4. Remove by the index number                |
|   5. Remove multiple elements                  |
|   6. Size of list                              |
|   7. add a element                             |
|   8. combined the list of the element          |
|   9. Add an element in any index               |
|   10. Find an element by the index             |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element          |
|   13. Update an element of any index           |
|   0. Exit                                      |
|                                                |
|------------------------------------------------|


Enter your choice :: 10
find an element by the index
Enter the index number to find the value :: 20
20 index is not present
   because you enter only index between 0 to 10
  total size of list :: 11
  so index is not matched !!!
```

```
|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|


Enter your choice :: 10
find an element by the index
Enter the index number to find the value :: 10
present value of 10 index :: 17

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|


Enter your choice :: 12
show index number of an element
```

```
Enter the element which you want to find the index :: 10
10 is not present in the list

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|


Enter your choice :: 12
show index number of an element
Enter the element which you want to find the index :: 17
17 is present in the index 10

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|
```

```
Enter your choice :: 13
Update an element with the help of an index number
Enter the index number :: 0
Enter the element :: 21
21 update in 0 index

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List                  |
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|


Enter your choice :: 1
normal list element
[21, 3, 2, 1, 5, 7, 8, 9, 0, 4, 17]

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List                  |
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|
```

```
Enter your choice :: 11
Show Sorted List
[0, 1, 2, 3, 4, 5, 7, 8, 9, 17, 21]

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|


Enter your choice :: 1
normal list element
[0, 1, 2, 3, 4, 5, 7, 8, 9, 17, 21]

|-----------------------------------------|
|         CHOOSE YOUR OPERATION           |
|-----------------------------------------|
|                                         |
|   1. Show normal list element           |
|   2. Search one element                 |
|   3. Search multiple elements           |
|   4. Remove by the index number         |
|   5. Remove multiple elements           |
|   6. Size of list                       |
|   7. add a element                      |
|   8. combined the list of the element   |
|   9. Add an element in any index        |
|   10. Find an element by the index      |
|   11. Show Sorted List
|         (Warning :- if you sort the list once,
|         then you unable to see normal list.
|         After that you always see sorted list)
|   12. show index number of an element   |
|   13. Update an element of any index    |
|   0. Exit                               |
|                                         |
|-----------------------------------------|
```

```
Enter your choice :: 0
.............Thank you for using this Software !!!!
Exiting...

Process finished with exit code 0
```