

```
25
26
27 public static int solve(List<Long> ar){
28     //Write your code here
29     int distinctArrayCount = 0;
30     int n = ar.size();
31     for(int i=0;i<n; i++){
32         for(int j=i+1;j<n;j++){
33             if(ar.get(i) != ar.get(j) || i!=j){
34                 distinctArrayCount++;
35             }
36         }
37     }
38
39     return distinctArrayCount * 2; //return type "int".
40 }
```

```
41
42
43 public class Main {
44     public static void main(String[] args) throws IOException {
45         BufferedReader bufferedReader = new BufferedReader(new InputStreamReader(System.in));
46         BufferedWriter bufferedWriter = new BufferedWriter(new FileWriter(System.getProperty("OUTPUT_FILE_PATH")));
47         bufferedWriter.write("\n");
48         bufferedWriter.close();
49         bufferedWriter = new BufferedWriter(new FileWriter(System.getProperty("OUTPUT_FILE_PATH"),true));
50         int arCount = Integer.parseInt(bufferedReader.readLine().trim());
51
52         List<Long> ar = new ArrayList<>();
53
54         String[] artempItems = bufferedReader.readLine().replaceAll("\\s+", "").split(" ");
55         for (int i = 0; i < arCount; i++) {
56             long arItem = Long.parseLong(artempItems[i]);
57             ar.add(arItem);
58         }
59     }
60 }
```

Topic:-

Select distinct a_1, a_2, \dots, a_n from r_1, r_2, \dots

Examine the above query and determine

- A: $\prod_{a_1, a_2, \dots, a_n} \sigma_p(r_1 \times r_2 \times r_3 \dots)$
- B: $\prod_{a_1, a_2, \dots, a_n} \sigma_p(r_1 \bowtie r_2 \bowtie r_3 \dots)$
- C: $\prod_{a_1, a_2, \dots, a_n} \sigma_p(r_1 \cup r_2 \cup r_3 \dots)$
- D: $\prod_{a_1, a_2, \dots, a_n} \sigma_p(r_1 \cap r_2 \cap r_3 \dots)$

A A and B

B A

C A and C

D D

E B

```
 5.      {
 6.          static void main(String [] args)
 7.          {
 8.              int x = 0x80000000;
 9.              System.out.print(x + " and ");
10.             x = x >>> 31;
        System.out.println(x);
    }
```

A

-2147483648 and 1

B

0x80000000 and 0x00000001

C

-2147483648 and -1

D

1 and -2147483648

Topic: Spring Boot

You are a Java developer working on a Spring Boot application. Now, you want to add Spring Security to the application?

(Select all that apply)

- A Cryptography
- B Microservices Security (JWT)
- C Authentication and Authorization
- D Detect virus from data packets
- E Intra App Authentication

Topic: Java Spring Security

Complete the code below for the configuration that handles database queries.

(There are multiple drop-downs below. Please select a correct response for each question.)

```
@Configuration  
public class InventorySecurityConfig extends WebSecurityConfigurerAdapter {  
  
    @Autowired  
    private DataSource ds;  
  
    @Override
```

Topic: SQL

Consider the following schema:

1. Shop(ShopID, Item, Address, Status, Cost)
2. Customer(CustomerID, ShopID, Name, Items_Purchased)

There is a foreign key in the Shop table in the Customer ID. There are ten rows on the shop table and ten on the customer table, and all the rows on the customer table have a ShopID foreign key assigned. What would be the outcome if the developer ran 'DROP TABLE SHOP' in SQL?

- A An error will occur because 'DROP TABLE SHOP' is an invalid SQL statement.
- B The Customer Table will be dropped.
- C An exception will occur because of the foreign key constraint in the Customer Table.
- D Both the Customer table and Shop table will be dropped.
- E The Table Shop will be dropped.

Choose the values that will implement the Builder pattern in the below code.

(There are multiple drop-downs below. Select a correct response for each drop-down)

```
public class CarBuilder {  
    public String model;  
    public String manufacturer;  
    public boolean available;  
  
    public CarBuilder(String model, String manufacturer) {  
        this.model = model;  
        this.manufacturer = manufacturer;  
    }  
    public CarBuilder setAvailable(boolean available) {  
        this.available = available;  
        return new CarBuilder(); ▾  
    }  
    public Car build() {  
        return new Car(); ▾  
    }  
}  
  
class Car {  
    private String model;  
    private String manufacturer;  
    private boolean available;  
  
    public (Car builder) ▾  
    {  
  
        this.model = builder.model;  
        this.manufacturer = builder.manufacturer;  
        this.available = builder.available;  
    }  
}
```

Topic: Java

What is the architecture style followed by the World Wide Web (www)?

- A REST (REpresentational State Transfer) style**
- B Lambda architecture style**
- C Microservices style**
- D CORS (Command Query Responsibility Separation)**

Topic: Hibernate

Consider the following persistence class and DAO class to retrieve all book records in ascending order of book name.

Choose the correct code segments in the drop-downs below to make the project work.

(There are multiple drop-downs below. Please select a correct response for each drop-down)

Book.java

```
//Necessary header files
@Entity
@Table(name="book")
class Book{
    @Id
    Integer id;
    @Column
    String name;
    @Column
    Float price;

    // Constructor, getter & setters
}
```

BookDAO.java

```
//Necessary header files
class BookDAO{
    public List<Book> findAll() {
        Session session=HibernateUtil.getSessionFactory().openSession();
        Criteria criteria = session.createCriteria(Book.class);
        book.addOrder(Order.asc("name"));
        List<Book> books = criteria.list();
        session.close();
        return books;
    }
}
```

Topic: ~~QUESTION~~
Consider the following persistence class and DAO class to retrieve the order of book name.
Choose the correct code segments in the drop-downs below to make

(There are multiple drop-downs below. Please select a correct response for each drop-down)

Book.java

//Necessary header files

```
@Entity
@Table(name="book")
class Book{
    @Id
    Integer id;
    @Column
    String name;
    @Column
    Float price;
```

// Constructor, getter & setters

}

BookDAO.java

//Necessary header files

```
class BookDAO{
    public List<Book> findAll() {
```

Topic: Hibernate

Which types of collection in persistent class can be used to map collection elements?

(Select all that apply)

A `java.util.Set`

B `java.util.LinkedList`

C `java.util.Stack`

Topic: REST API

You are writing documentation for an API and including the following accordingly.

(Drag and drop values from the "Answer Choices" area to the corresponding correct cells)

Note: Drop the answer choices into the cells once they are highlighted with blue dashed lines

To request a resource

/GET/

To send data

/POST/

To request one user

/GET/userId=

To send data for one user

/POST/userId=

To update data

/PUT/

Topic: REST API

You are developing an API, and sometimes the requests are not in the proper form. You need to handle such requests accordingly.

(To rearrange, hold and drag the tiles)

Proper formation of the request

Type of the request

Check authentication and authorization

Process the request

Return the response