

Q)

Pseudo Code:

- 1) First initialize t
- 2) And applying a loop on t,
- 3) Initialize an array
- 4) Perform a loop and get the value of array
- 5) Applying sorting in array
- 6) Then perform a loop and inside a loop apply if check ie, if if (arr[j] == arr[j - 1])
then b = arr[j] and then break;
- 7) And after that check l*b is greater than 0 then print l*b
- 8) Else -1

Implementation:

```
#include <bits/stdc++.h>
using namespace std;
```

```
#define int long long int
```

```
main()
```

```
{
```

```
    int t;
```

```
    cin >> t;
```

```
    while (t--)
```

```
    {
```

```
        int n, l = 0, b = 0;
```

```
        cin >> n;
```

```
        int arr[n], x;
```

```
        for (int i = 0; i < n; i++)
```

```
        {
```

```
            cin >> arr[i];
```

```
        }
```

```
        sort(arr, arr + n);
```

```
        int i;
```

```
for (i = n - 1; i > 0; i--)
{
    if (arr[i] == arr[i - 1])
    {
        l = arr[i];
        break;
    }
}
for (int j = i - 2; j > 0; j--)
{
    if (arr[j] == arr[j - 1])
    {
        b = arr[j];
        break;
    }
}
if (l * b > 0)
{
    cout << l * b << endl;
}
else
{
    cout << -1 << endl;
}
}
```