Shri Vile Parle Kelavani Mandal's



INSTITUTE OF TECHNOLOGY

DHULE (M.S.)

DEPARMENT OF COMPUTER ENGINEERING

Subject: Competitive Programming Lab (BTCOL606)

Name: Mohammed Meraj Mohammed Roll No.: 32

Ashfaque

Class: TY Computer Batch: T2 Division: T

Expt. No. :02 Date : 10/03/2025

Title: Sales by Match Problem

Signature

Remark

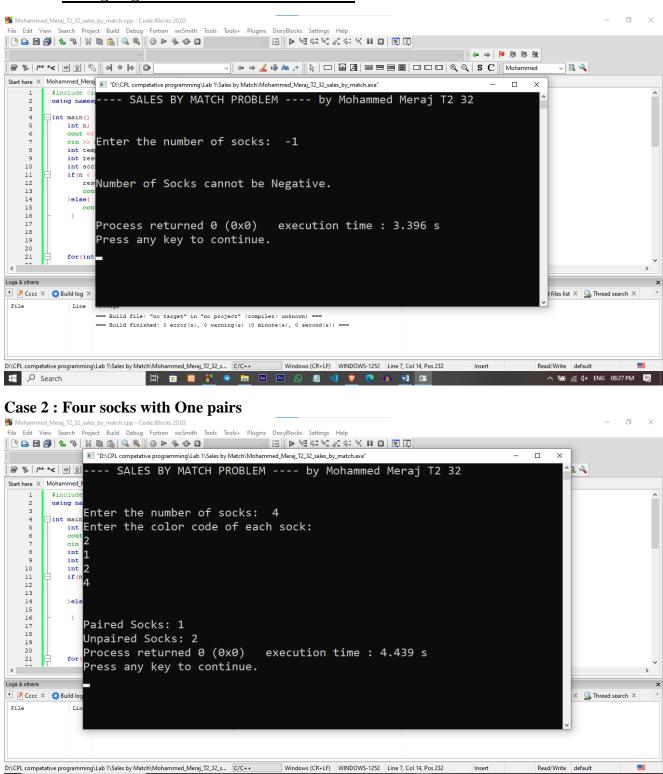
```
Language used: C++
Code:
#include <iostream> //Mohammed Meraj Mohammed Ashfaque T2 32
using namespace std;
int main() {
  int n;
  cout << "---- SALES BY MATCH PROBLEM ---- by Mohammed Meraj T2
32\n\n\nEnter the number of socks: ";
  cin >> n;
  int temporary=0;
  int result_limiter = 0;
  int socks[n];
  if(n < 0){
    result limiter = 1;
    cout << ''\n\nNumber of Socks cannot be Negative. \n\n'';</pre>
    cout << "Enter the color code of each sock: " << endl;</pre>
  for(int i = 0; i < n; i++) {
      cin >> temporary;
   if(temporary > 0){
```

```
socks[i] = temporary;
  }else{
   cout << "Color Code Cannot be negative \n";</pre>
   result_limiter =1;
   break;
int totalPairedSocks = 0;
for(int i = 0; i < n; i++) {
  for(int j = i+1; j < n; j++) {
     if(socks[i] == socks[j]) {
          if(socks[i] != -1){
            totalPairedSocks += 2;
            socks[i] = -1;
            socks[j] = -1;
          }else{
          }
       if(socks[i] != -1 || socks[j] != -1){
         socks[i] = -1;
         socks[j] = -1;
       break;
  }
  }
}
if(result_limiter == 0){
  cout << "\n\nPaired Socks: " << totalPairedSocks / 2;</pre>
  cout << "\nUnpaired Socks: " << n - totalPairedSocks;</pre>
}
return 0;
```

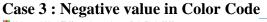
}

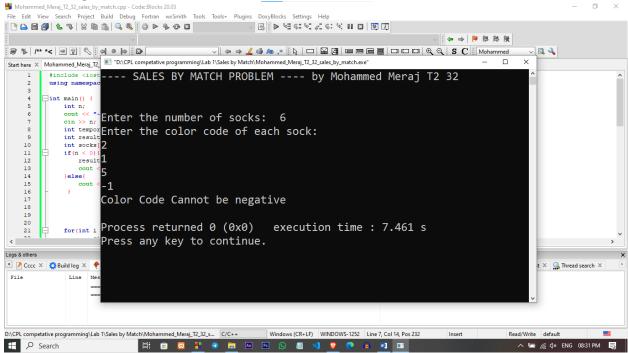
Output:

Case 1 : Giving Negative Value in Number of Socks



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Case 4: Nine socks with Three pairs (3 unpaired)

