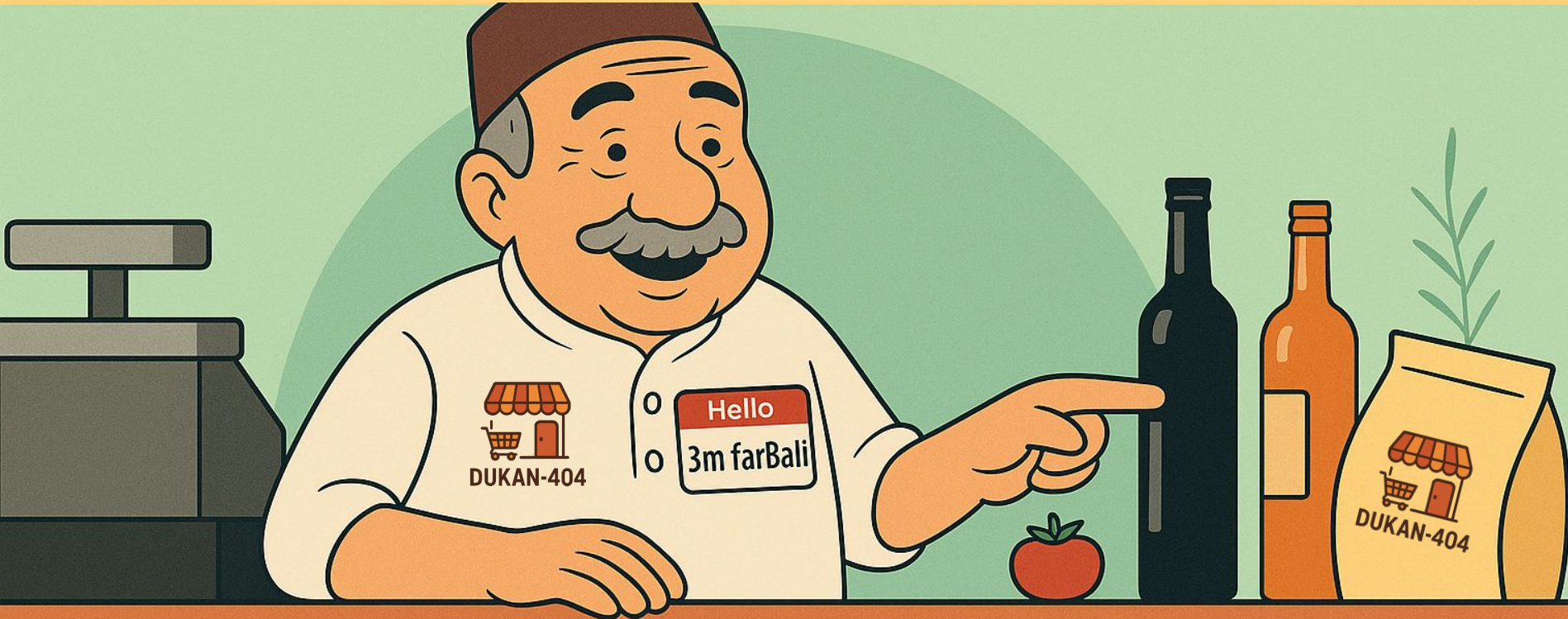


Algorithmic Beasts Presents:

DUKAN - 404

Powered by 3m Far8ali.



WHO ARE WE ?

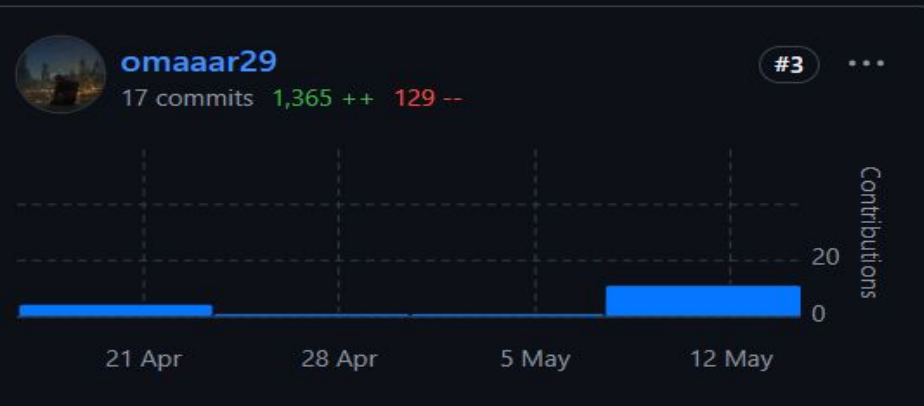
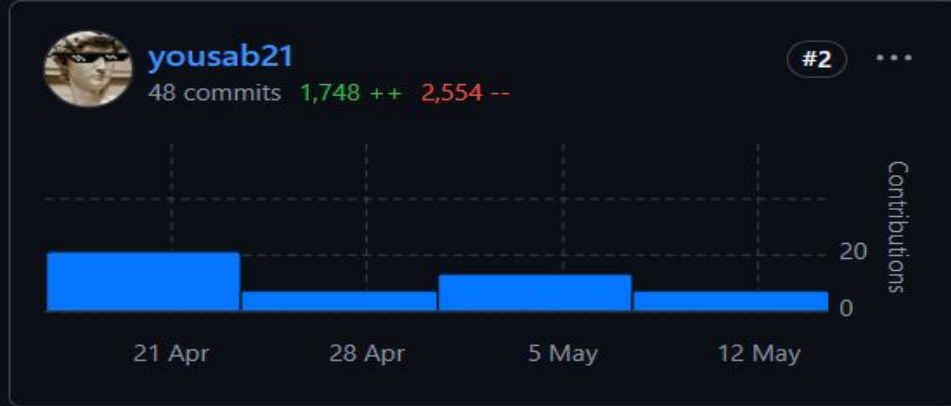
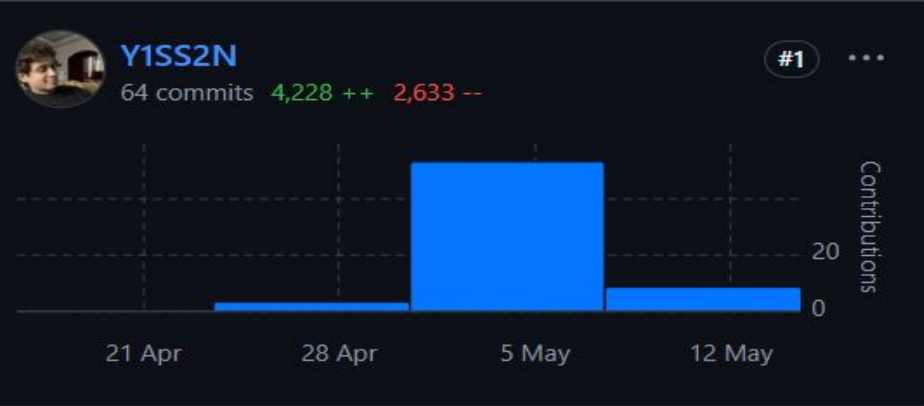
Algorithmic Beasts :

Yousab Nabil Nasrallah
Yassin Khaled El Naggar
Omar Mohamed Raga2i
Yehia El Safty
Mahmoud Saad Helal
Mohamed Sobhi Eltelwy
Mohamed Hamada Gomaa
Omar Mohamed Shehata
Mohamed Elnagar
Mahmoud Samir Saad

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section 33



Our Aspiring Engineers:

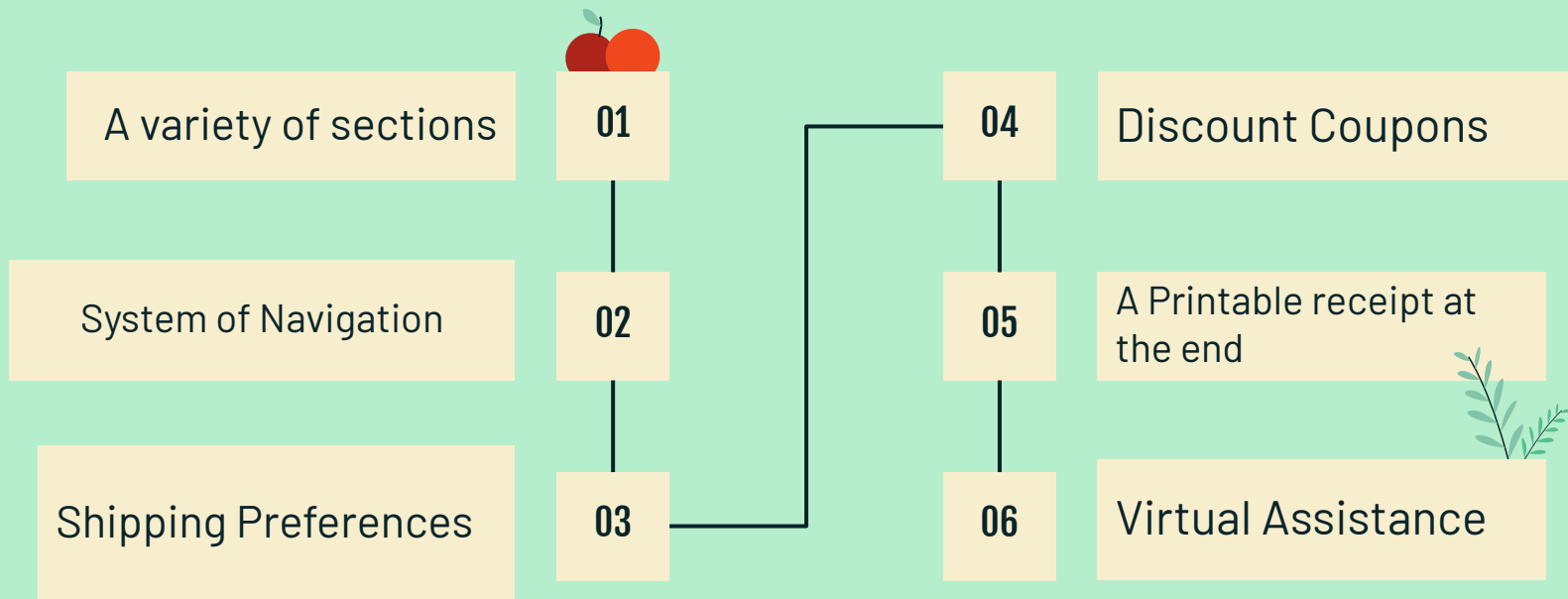


01.

Product and User Experience

With Yassin Khaled Elnaggar

Programs Features



Our Coupons

5%OFF

Use coupon
yousab



10%OFF

Use coupon
Yassin



15%OFF

Use coupon
Omar



20%OFF

Use coupon
yahia



Secret coupon 99%OFF!!
"dr.mohamed"

Meet 3m far8ali

DUKAN - 404's

- Customer assistant ,
- Insightful Recommendations,
- Resident comedian ,
- And overall a pretty chill guy !





02.



developer end

With (Omar Raga2i & Yousab Nabil)

Our coding standards



NO NESTING

Our code is written in a way to minimize confusing loop nesting

DESCRIPTIVE NAMING

All variables in our code have names that make their function clear

COMMENTS EVERYWHERE

Every operation in this code is followed by comments that explains it



A LOT OF DECOMPOSING

Our code is broken down into many different functions to maximize readability

Breakdown of our code

>./ 1



Database of all items ,prices
,and coupons

>./ 2

Shipping choice function

>./ 3



Coupon handling function

>./ 4

product recommendation
function

> ./ 5



Payment selection function

>./ 6

Main execution steam

Shipping functions

We offer 3 unique shipping methods

Coupons function

We have many coupons that gives you a good discounts

Cart function

The software shows a modern cart function with the ability to remove items

Customer support function

You could describe the topic of the section here

Payment

You have many payment methods so you wouldn't find it hard when paying

Recommendations

3m far8ly recommends you many items to buy

Shipping Methods

Fast shipping



Time: 2-3 days
Cost : 17\$

Overnight shipping



Time: Next day
Cost: 25\$

Regular shipping



Time: 5-7 days
Cost: 10\$



Customer Cart

The customer should be able to remove the items he bought by mistake

SOLUTION

So we came up with the idea of an virtual cart that enables the customer to remove and check the things they bought by rearranging the array so all items are shifted left



DUKAN-404

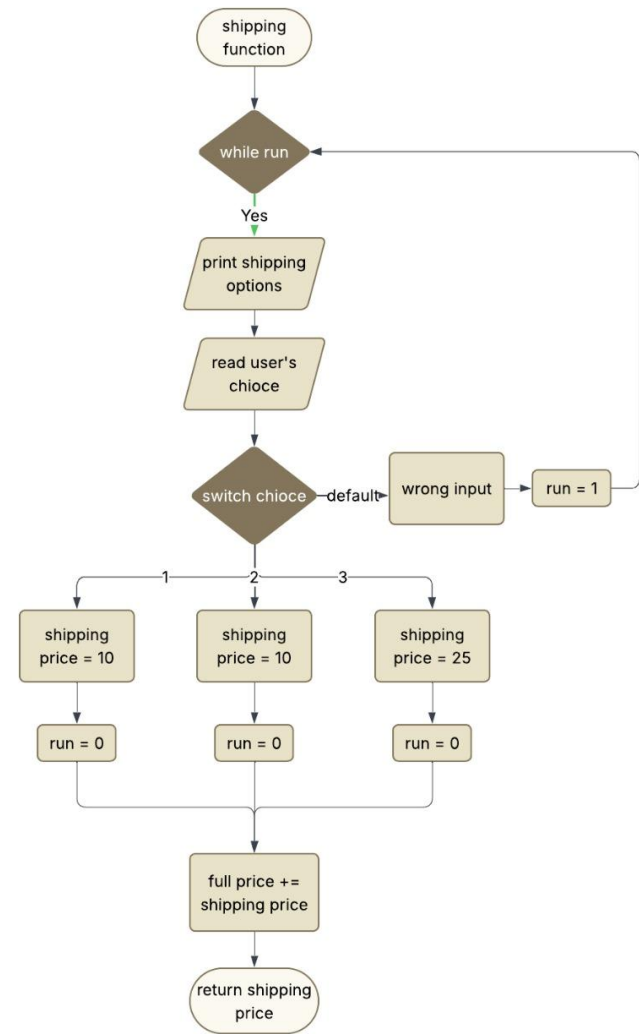
OPEN

So, let's dive into the code shall we !


```

142 // Shipping Locations Function Pricing
143
144 int Shipping() {
145     int run = 1;
146     int shippingPrice = 0;
147     while (run) {
148         printf("\n1. Standard Shipping\t5-7 Days\t10$\n2. Fast Shipping\t1-2-3 Days\t17$\n3. Overnight Shipping\tNext Day\t25$\n\nchoose shipping option: ");
149         scanf("%d", &shipping_method); // Receives The Shipping Option Chose By The User.
150         fflush(stdin);
151
152         // Choosing The Shipping Method By The User.
153         switch (shipping_method) {
154             case 1:
155                 shippingPrice += 10;
156                 run = 0;
157                 break;
158             case 2:
159                 shippingPrice += 17;
160                 run = 0;
161                 break;
162             case 3:
163                 shippingPrice += 25;
164                 run = 0;
165                 break;
166             default:
167                 printf("\n\t!Wrong Input! \n\t! Try Again ! \n\n"); // The Message if the user entered a wrong value.
168                 run = 1;
169                 break;
170         }
171     }
172     return shippingPrice;
173 }
174 //

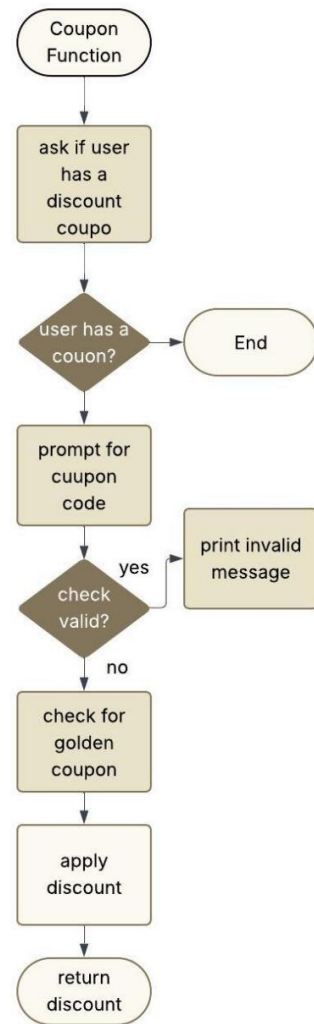
```




```

3 170
4 177 // Coupons Function
5 178 void check_coupon() {
6 179     char coupon_response, coupon_code[20];
7 180     int coupon_index = -1;
8 181     int valid_coupon = 0;
9 182     printf("Do you have a discount coupon [y/n]? ");
10 183     scanf("%c", &coupon_response);
11 184     fflush(stdin);
12 185
13 186     // Checking for Coupons
14 187     if (coupon_response == 'y' || coupon_response == 'Y') { // Check for the Availability of a coupon.
15 188         printf("Please enter your coupon code: ");
16 189         scanf("%s", coupon_code);
17 190         fflush(stdin);
18 191
19 192         for (coupon_index = 0; coupon_index < 5; coupon_index++) { // Goes into each coupon in the array for valid ones.
20 193             if (strcmp(coupons[coupon_index], coupon_code) == 0) {
21 194                 discount_value = full_price * discount[coupon_index];
22 195                 valid_coupon = 1;
23 196                 if (strcmp("dr.mohamed", coupon_code) == 0) {
24 197                     printf("\n=====");
25 198                     printf("\n!!!!!!!!!!!! OOOOOH THE GOLDEN COUPON [YOU GET 99%% OFF] !!!!!!!!!!!!!\n");
26 199                     printf("=====\n");
27 200                 }
28 201                 break;
29 202             }
30 203         }
31 204
32 205         if (valid_coupon != 1) { // if the coupon is not valid print out this message.
33 206             printf("\nInvalid coupon code.\n");
34 207         }
35 208     }
36 209 }
37 210 //-----

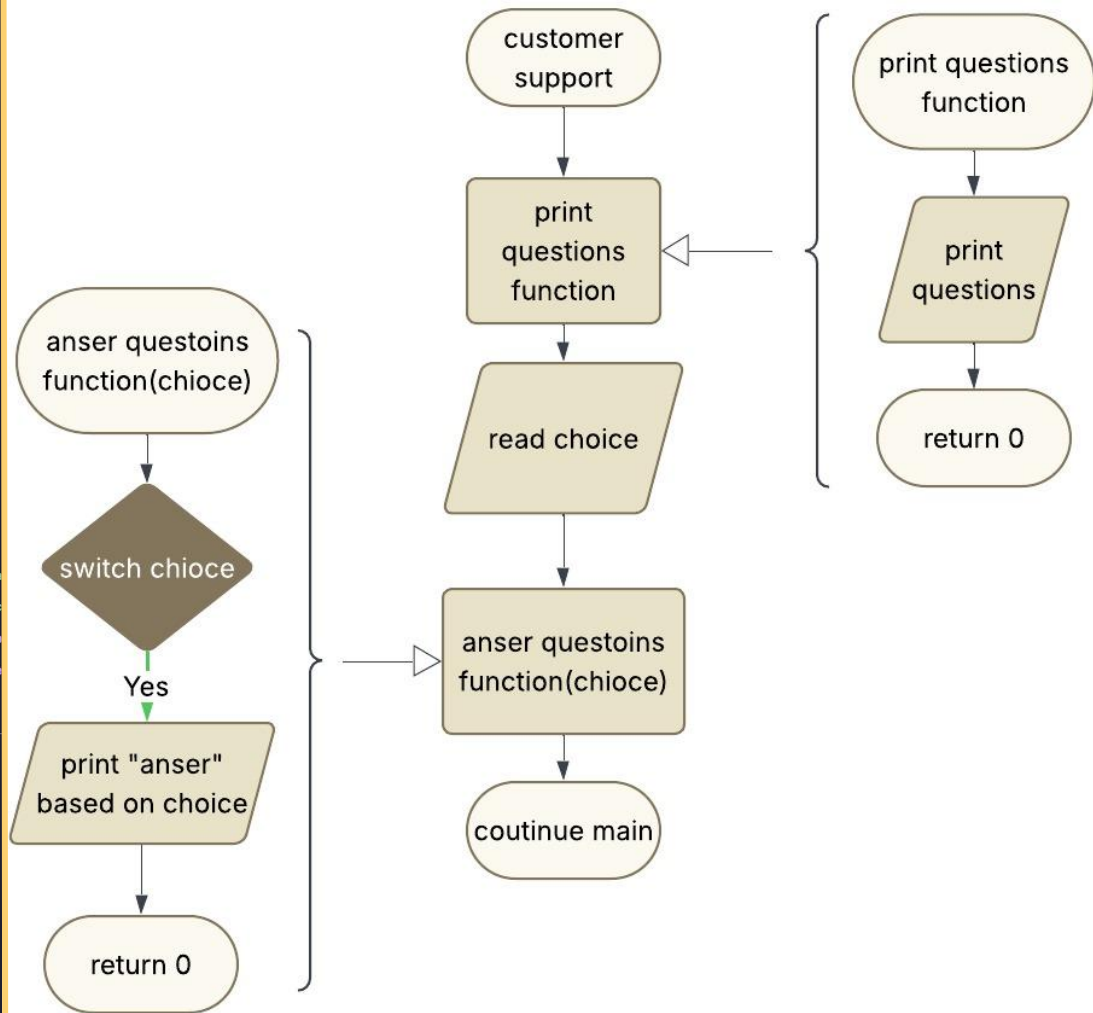
```



```

488 // Customer Support Function
489
490 void printQuestions() {
491     printf("===== Customer Support Center =====\n");
492     printf("Please select your question by entering the number:\n");
493     printf("1. What are your store hours?\n");
494     printf("2. How can I track my order?\n");
495     printf("3. What is your return policy?\n");
496     printf("4. Can I modify my order after placing it?\n");
497     printf("5. What payment methods do you accept?\n");
498     printf("6. How do I use a coupon code?\n");
499     printf("7. Is there a minimum order for delivery?\n");
500     printf("8. How are cold/frozen items delivered?\n");
501     printf("9. Do you have organic products?\n");
502     printf("10. How can I contact customer service?\n");
503     printf("===== \n");
504 }
505
506 void answerQuestion(int choice) {
507     switch (choice) {
508         case 1: printf("\n3m far8ali 🍌 : el ma7el fake7 kol yom mn 8 AM le 10 PM. ]\n\n"); break;
509         case 2: printf("\n3m far8ali 🍌 : haneb3atlak resala ow hanetes1 beek yom el tawsil ]\n\n"); break;
510         case 3: printf("\n3m far8ali 🍌 : ay montag ma3ada el akal we el 4orb monken teraga3o fi 5ial 7 ayam ]\n\n"); break;
511         case 4: printf("\n3m far8ali 🍌 : tab3an ! e7tar \"5. view cart\" 2abal me te7aseb we hatla2i el option enak te4eel 7aga
512         case 5: printf("\n3m far8ali 🍌 : te2dar tedfa3 cash aw be el criedt card aw 7ata vodafon cash we fawry ]\n\n"); break;
513         case 6: printf("\n3m far8ali 🍌 : el barnameg hys2alak lw kan m3ak coupon we enta be t-check out 25tar 'y' we de5al el c
514         case 7: printf("\n3m far8ali 🍌 : la2 te2dar totlop 4o7na be ay se3r te7ebo ]\n\n"); break;
515         case 8: printf("\n3m far8ali 🍌 : beneb3athom fi sandoo2 mo5asas be7afez 3la daraget 7ararithom ta7et el sefr ]\n\n"); b
516         case 9: printf("\n3m far8ali 🍌 : kol el fwakeh we el 4odrawat 3andena organic 100 fi el 100 ]\n\n"); break;
517         case 10: printf("\n3m far8ali 🍌 : monken tetwasel ma3ana 3la DUKAN404@gmail.com aw tetes1 3la 0183-345-4949 ]\n\n"); bre
518         default: printf("\n3m far8ali 🍌 : atamano akoon 3ereft asa3dak ]\n\n");
519     }
520 }
521 //
522

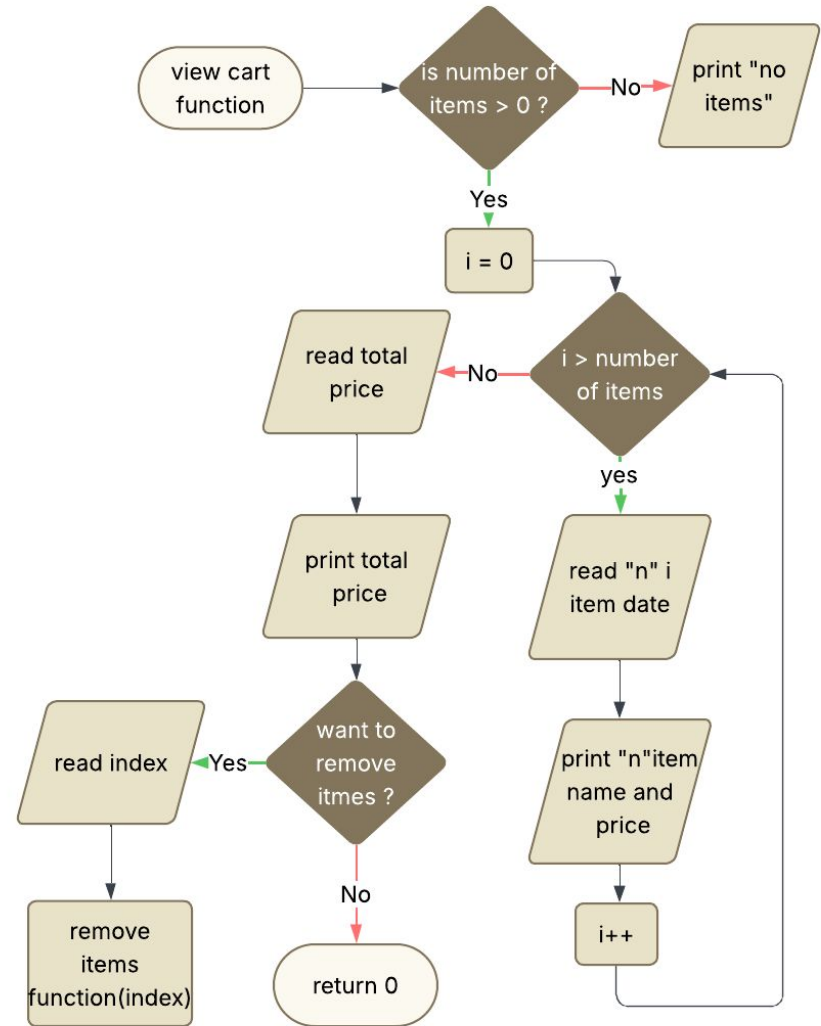
```



```

461
462 // Cart Function
463 void show_selected_items() {
464     printf("\n===== Your Selected Items =====\n");
465     if ( number_of_items == 0 ) {
466         printf("No items selected yet.\n");
467     } else {
468         for (int i = 0; i < number_of_items; i++) {
469             printf("%2d. %-20s - %.2f EGP\n", i + 1, item[i].name, item[i].price); // Print out the selected items
470         }
471         printf("-----\n");
472         printf("Total so far: %.2f EGP\n", full_price); // Print out the total price for the current selected items.
473     }
474     printf("=====\n\n");
475 }
476
477 //-----
478 //-----
479

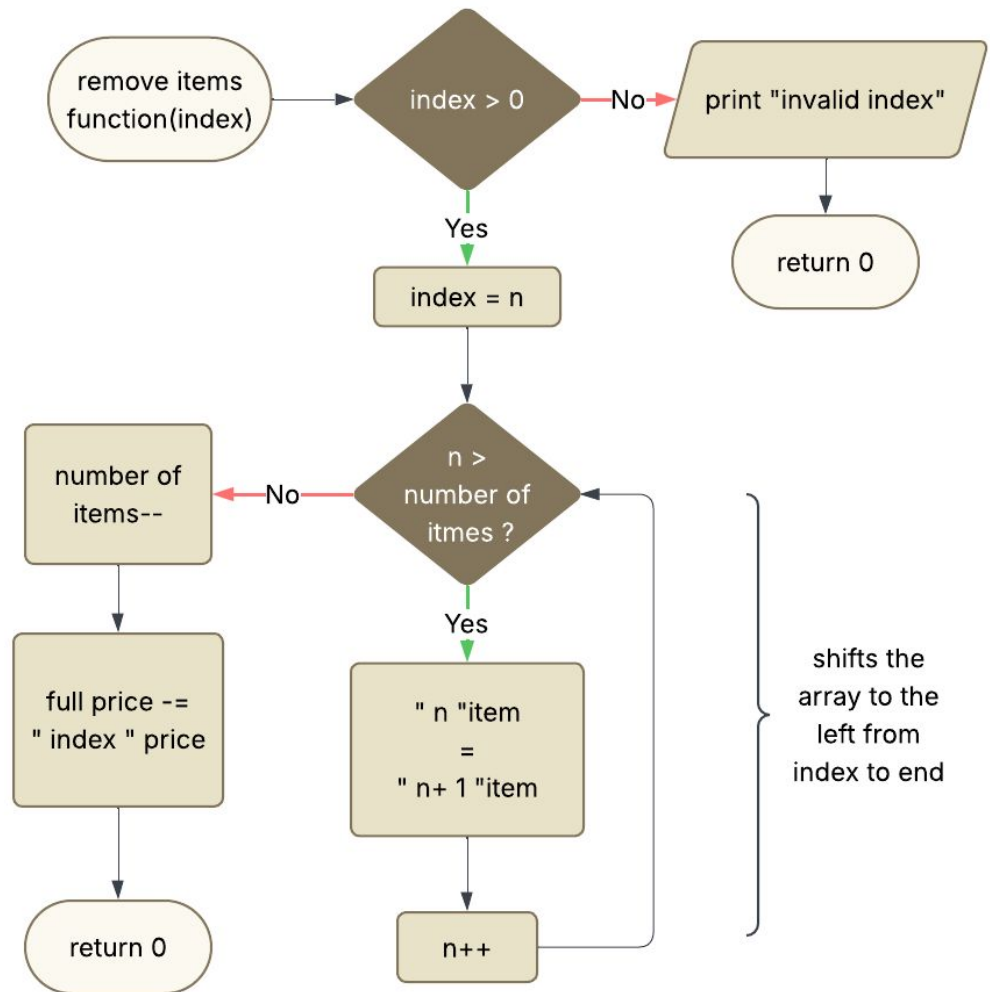
```



```

480 // Function for removing items from the cart
481
482 void remove_item_from_cart(int item_index) {
483     if (item_index < 0 || item_index >= number_of_items) {
484         printf("Invalid item index.\n");
485         return;
486     }
487     // Shift items to the left
488     for (int i = item_index; i < number_of_items - 1; i++) {
489         item[i] = item[i + 1];
490     }
491     number_of_items--;
492     full_price -= item[item_index].price; // Update the total price
493     printf("Item removed from cart.\n");
494 }
495 //-----
496 //-----

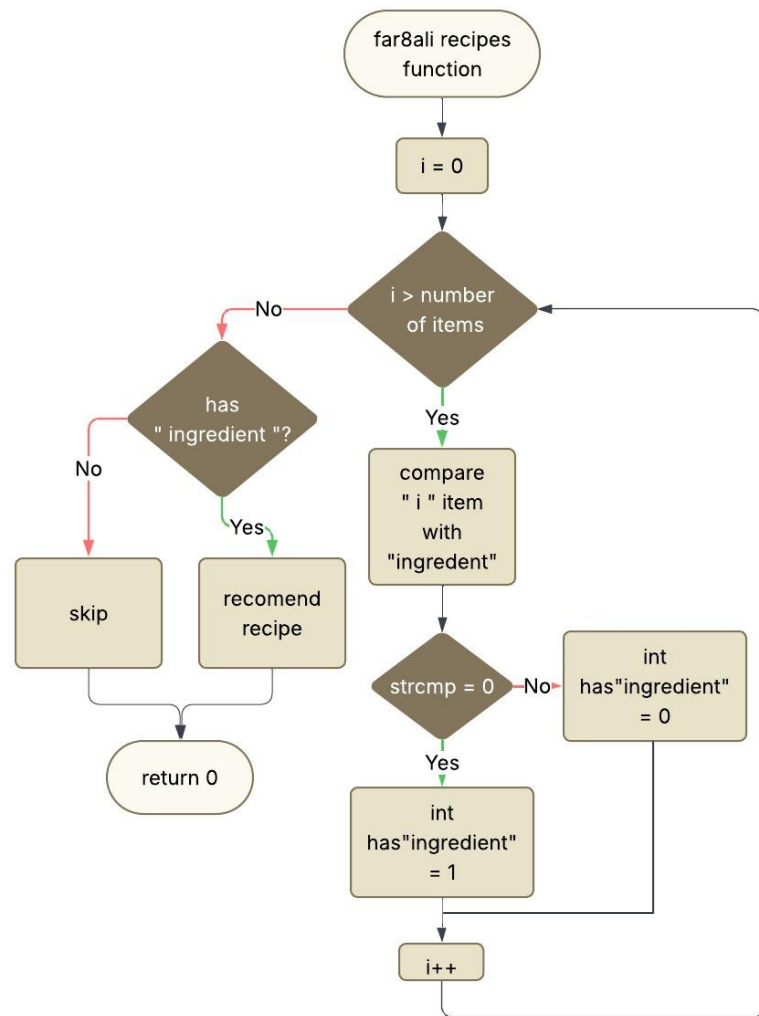
```



```

498 // 3am Far8ali's recipes from cart items
499
500 void suggestRecipeFromFood() {
501     int hasBananas = 0, hasRice = 0, hasBread = 0, hasEggs = 0, hasMilk = 0, hasCheese = 0, hasButter = 0, hasChicken = 0, hasApples = 0;
502
503     for (int i = 0; i < number_of_items; i++) {
504         if (strcmp(item[i].name, "Bananas (1kg)" ) == 0) hasBananas = 1;
505         if (strcmp(item[i].name, "Rice (1kg)" ) == 0) hasRice = 1;
506         if (strcmp(item[i].name, "Bread (loaf)" ) == 0) hasBread = 1;
507         if (strcmp(item[i].name, "Eggs (dozen)" ) == 0) hasEggs = 1;
508         if (strcmp(item[i].name, "Milk (1L)" ) == 0) hasMilk = 1;
509         if (strcmp(item[i].name, "Cheese (200g)" ) == 0) hasCheese = 1;
510         if (strcmp(item[i].name, "Butter (250g)" ) == 0) hasButter = 1;
511         if (strcmp(item[i].name, "Chicken (1kg)" ) == 0) hasChicken = 1;
512         if (strcmp(item[i].name, "Apples (1kg)" ) == 0) hasApples = 1;
513     }
514
515     int all_of_them = hasApples + hasBananas + hasRice + hasBread + hasEggs + hasMilk + hasCheese + hasButter + hasChicken;
516
517     if (all_of_them > 0) {
518         printf("\n3m Far8ali 🍳: 7abibi, el akl elly 3andak fi el cart da 7aga 7elw awi! \n");
519     }
520
521     // Recipe suggestions based on available ingredients
522     if (hasBananas && hasMilk) {
523         printf("Bananas + Milk = Smoothie farghali, ya 7abibi 🥤🍌\n");
524     }
525     if (hasChicken && hasRice) {
526         printf("Chicken + Rice = Farghali's Special Chicken & Rice 🍗🍚\n");
527     }
528     if (hasEggs && hasCheese && hasBread) {
529         printf("Eggs + Cheese + Bread = Sandwich farghali style! 🍞🧀🥚\n");
530     }
531     if (hasApples && hasCheese) {
532         printf("Apples + Cheese = Salata farghali, ba7ebah 🍏🧀\n");
533     }
534     if (hasBananas && hasEggs) {
535         printf("Bananas + Eggs = Pancakes farghali style! 🥞🍌\n");
536     }
537     if (hasChicken && hasCheese && hasBread) {
538         printf("Chicken + Cheese + Bread = Sandwich ala Farghali! 🍞🧀🍗\n");
539     }
540     if (hasRice && hasMilk) {
541         printf("Rice + Milk = Rice pudding, ya 7abibi! 🍌🥛\n");
542     }
543     if (hasBananas && hasApples && hasMilk) {
544         printf("Bananas + Apples + Milk = Smoothie farghali style, ya m3alem 🍌🍏🥛\n");
545     }
546     if (hasEggs && hasCheese) {
547         printf("Eggs + Cheese = Omelette farghali! 🍳🧀\n");
548     }
549     if (hasBananas && hasEggs && hasButter) {
550         printf("Bananas + Eggs + Butter = Banana bread, farghali style! 🍌🍞🧈\n");
551     }
552
553     if (all_of_them == 0) {
554         printf("\nMaFish Akl kifayah 3shan elwasfah fi Al salah ya m3lem. 🍲\n");
555     }
556 }

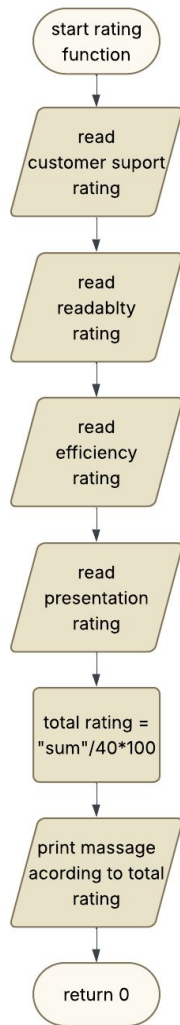
```




```

520 void Rating ()
521 {
522     int presentation_rating, customerSupport_rating, readability_rating, CodeEfficiency_rating, full_rating, percentage;
523     printf("    ||=====||\n");
524     printf("    ||    Please rate our online shop!    ||\n");
525     printf("    ||    3shan 3m far8ali 🤖 m4 rady ydf3    ||\n");
526
527     printf("    ||=====||\n");
528     printf("    customer support? (out of 10): ");
529     scanf("%d", &customerSupport_rating);
530     printf("    ||-----||\n");
531
532     printf("    Code readability? (out of 10): ");
533     scanf("%d", &readability_rating);
534     printf("    ||-----||\n");
535
536     printf("    Code Efficiency ? (out of 10): ");
537     scanf("%d", &CodeEfficiency_rating);
538     printf("    ||-----||\n");
539
540     printf("    presentation? (out of 10): ");
541     scanf("%d", &presentation_rating);
542     printf("    ||=====||\n\n\n");
543
544     full_rating = presentation_rating + customerSupport_rating + readability_rating + CodeEfficiency_rating;
545     percentage = (full_rating / 40) * 100;
546
547     if (percentage >= 90)
548         printf("3m far8ali 🤖: bainy keda lazam a7asb el 3yal di begad!");
549     else if (percentage >= 75)
550         printf("3m far8ali 🤖: El eyal te3bt fe3lan h7asb b 25%% discount");
551     else if (percentage >= 50)
552         printf("3m far8ali 🤖: El 3yal e4t8lt w shrt brdo hdf3 50%% mn el mabl8");
553     else if (percentage <= 50)
554         printf("3m far8ali 🤖: bernamg 3la el kd khals hdf3 30%% 3shan mz3lhm4");
555 }

```



THANK YOU FOR YOUR TIME !
Goodbye!

