<https://codeshare.io/mp9Kq1>

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

int danhmuc() {

// Khai bao và khoi tao du lieu sach

printf("Category of normal goods.\n");

char tenSach[][50] = {"Lap trinh tu A-Z", "Cam nang cuoc song", "Ehehehehe"};

char maSoSach[][10] = {"123", "456", "789"};

int soThuTu[] = {1, 2, 3};

int soSach = sizeof(tenSach) / sizeof(tenSach[0]);

// In bang sach

printf("\n");

printf("-----------------------------------------\n");

printf("STT Ma so Ten san pham binh thuong\n");

printf("-----------------------------------------\n");

for (int i = 0; i < soSach; i++) {

printf("%-6d%-18s%s\n", soThuTu[i], maSoSach[i], tenSach[i]);

}

printf("-----------------------------------------\n");

char TenSach[][50] = {"Smartphones", "Tablet", "Laptop"};

char MaSoSach[][10]= {"441", "442", "443"};

int SoThuTu[] = {1, 2, 3};

int SoSach = sizeof(TenSach) / sizeof(TenSach[0]);

// In bang sách

printf("Category of electronic devices\n");

printf("-----------------------------------------\n");

printf("STT Ma so Ten thiet bi\n");

printf("-----------------------------------------\n");

for (int i = 0; i < soSach; i++) {

printf("%-6d%-18s%s\n", SoThuTu[i], MaSoSach[i], TenSach[i]);

}

printf("-----------------------------------------\n");

char t[][50] = {"Pencils", "Pens", "Rulers"};

char m[][10] = {"221", "222", "223"};

int s[] = {1, 2, 3};

int k = sizeof(t) / sizeof(t[0]);

// In bang sach

printf("Category of stationery:\n");

printf("-----------------------------------------\n");

printf("STT Ma so Ten van phong pham\n");

printf("-----------------------------------------\n");

for (int i = 0; i < k; i++) {

printf("%-6d%-18s%s\n", s[i], m[i], t[i]);

}

printf("-----------------------------------------\n");

}

void addProduct (char codes[][9], char names[][21], int\*pn) {

//them san pham

printf("Enter the product code: ");

scanf("%s[^\n]", codes[\*pn]);

printf("Enter the product name: ");

scanf("%s[^\n]", names[\*pn]);

++(\*pn);

printf("Success!\n");

}

int findCode(char code[], char codes[][10], int n) {

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

if (strcmp(code, codes[i]) == 0) {

return i;

}

}

return -1;

}

void removeCode ( char code[10],char codes[10][10], char names[10][30], int\* pn) {

/\* Sort the list based on categories then names\*/

printf("Enter Code Remove: ");

scanf("%s", code);

int found=0;

for (int i=0; i<(\*pn); i++) {

if (strcmp (codes[i], code) == 0) {

found =1;

for (int j=i; j<(\*pn)-1; j++) {

strcpy(names[j], names[j + 1]);

strcpy(codes[j], codes[j + 1]);

}

--(\*pn);

printf("Success!\n");

break;

}

}

if (!found) {

printf("Error 404\n");

}

}

void print(char codes[][9], char names[][21], int n) {

int i;

if(n!=0) {

printf("Product List: \n");

for(i=0;i<n;i++){

printf("San Pham %d:\nCode: %s\nName: %s\n", i, codes[i],names[i] );

}

}

}

int main() {

char stname, ltname;

char Class;

char codes[10][10];

char names[10][30];

char code[30];

int choice;

int n= 0;

int \*pn=&n;

int pos;

printf(" Press enter to continue!");

while ( getchar() != '\n' ); {

printf("\tPlease press your student's information.\n");

printf("First name: ");

scanf("%s", &stname);

printf("Last name: ");

scanf("%s", &ltname);

printf("Your class: ");

scanf("%s", &Class);

printf("\n");

printf("\n\n\tThis is a menu of commodities in the shop with the following options.\n");

do {

printf("\tPlease choose one of them.");

printf("\n1- Add a new item.\n");

printf("2- Print out items.\n");

printf("3- Remove an item.\n");

printf("4- Find Code.\n");

printf("5- Print the list in ascending order.\n");

printf("6- Exit.\n");

printf("Your choice: ");

scanf("%d", &choice);

switch (choice) {

case 1: addProduct (codes, names, pn);

break;

case 2: danhmuc();

break;

case 3: removeCode ( code, codes, names, pn);

break;

case 4: printf("Enter code: ");

scanf("%s", code);

printf("code position: %d\n", findCode(code, codes, n) );

break;

case 5: printf("Print All Product: \n");

print(codes,names, n);

break;

case 6: printf("Goodbye, see you again!");

break;

default: printf("Invalid, please try again!");

break;

}

}

while ( choice != 6 );

return choice;

}

}