

# Report 11

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## Structures

**In this laboratory work I created some structures and functions, which work with these structures**

**In this programm I created a programm for Online Store Management - I have store, product and customer structures and functions, which can add new products, place some orders and read orders for customers**

**Here are my structures:**

```
typedef struct {  
    char name[MAX_NAME_LENGTH];  
    float price;  
    int amount;  
} product_t;
```

```
typedef struct {  
    char name[MAX_NAME_LENGTH];  
    int orders[MAX_ORDERS];  
    int ordersAmount;  
} customer_t;
```

```
typedef struct {  
    product_t products[MAX_PRODUCTS];  
    int productsAmount;  
    customer_t customers[MAX_CUSTOMERS];  
    int customerAmount;  
} store_t;
```

**I also have some checks if such prodict exist and if such customer exist.**

**So here is my output**

```
└─(malex-kali@MA)-[~/Programming/Lab11]  
└─$ gcc -g -O0 main.c -o expr  
  
└─(malex-kali@MA)-[~/Programming/Lab11]  
└─$ gdb ./expr  
GNU gdb (Debian 13.2-1+b2) 13.2  
Copyright (C) 2023 Free Software Foundation, Inc.  
License GPLv3+: GNU GPL version 3 or later http://gnu.org/licenses/gpl.html  
This is free software: you are free to change and redistribute it.  
There is NO WARRANTY, to the extent permitted by law.  
Type "show copying" and "show warranty" for details.
```

```
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details. For bug reporting instructions, please
see:
https://www.gnu.org/software/gdb/bugs/.
Find the GDB manual and other documentation resources online at:
http://www.gnu.org/software/gdb/documentation/.

For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from ./expr...
(gdb) c
The program is not being run.
(gdb) r
Starting program: /home/malex-kali/Programming/Lab11/expr
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
Product 'Computer' added
Product 'Printer' added
Product 'Scanner' added
Order placed: Alice ordered 'Computer'.
Order placed: Alice ordered 'Scanner'.
Order placed: Bob ordered 'Printer'.
Order placed: Bob ordered 'Scanner'.
Customer Angela not found.
Orders by Bob:
-Printer (Price: $250.00)
-Scanner (Price: $123.40)
Orders by Alice:
-Computer (Price: $871.20)
-Scanner (Price: $123.40)
[Inferior 1 (process 13044) exited normally]
(gdb)
```