CE103 Algorithms and Programming I HW3

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Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

rec 5

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

C:/Users/Emirhan/Desktop/CE103-HW3/DepartmentStoreManagementSystem/DepartmentStore↩
ManagementSystem/DepartmentStoreManagementSystem.c 7
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Chapter 3

Data Structure Documentation

3.1 rec Struct Reference

Data Fields

- char name [ANS]
- char code [ACS]
- float rate
- int quantity

3.1.1 Field Documentation

3.1.1.1 code

```
char rec::code[ACS]
```

Referenced by add(), bill(), c_code(), check(), d_code(), del(), display(), and edit().

3.1.1.2 name

```
char rec::name[ANS]
```

Referenced by add(), bill(), display(), and edit().

3.1.1.3 quantity

```
int rec::quantity
```

Referenced by add(), bill(), d_quan(), display(), and edit().

3.1.1.4 rate

```
float rec::rate
```

Referenced by add(), bill(), d_rate(), display(), and edit().

The documentation for this struct was generated from the following file:

- C:/Users/Emirhan/Desktop/CE103-HW3/DepartmentStoreManagementSystem/DepartmentStoreManagement↩ System/DepartmentStoreManagementSystem.c

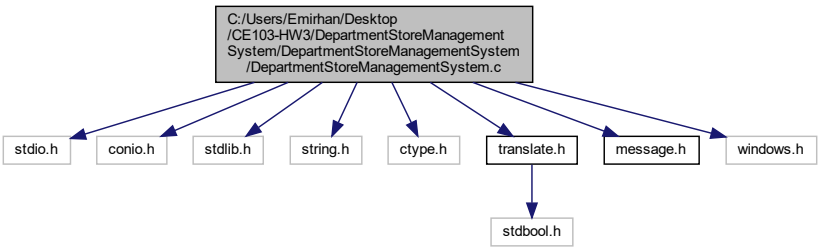
Chapter 4

File Documentation

4.1 C:/Users/Emirhan/Desktop/CE103-HW3/DepartmentStore↩ ManagementSystem/DepartmentStoreManagementSystem/↩ DepartmentStoreManagementSystem.c File Reference

```
#include <stdio.h>
#include <conio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include "translate.h"
#include "message.h"
#include <windows.h>
```

Include dependency graph for DepartmentStoreManagementSystem.c:



Data Structures

- struct rec

Macros

- #define _CRT_SECURE_NO_WARNINGS
- #define ANS 15
- #define ACS 4

Functions

- void gotoxy (int x, int y)
- void c_code (char[ ])
- int check (char[ ])
- void curser (int)
- void dbill ()
- void d_mainmenu ()
- void display (rec *, int, int)
- void window (int, int, int, int)
- void dis_con ()
- void d_search ()
- void highlight (int, int)
- void bill ()
- void edit ()
- void add ()
- void del ()
- void exit ()
- void d_code ()
- void d_rate ()
- void d_quan ()
- void d_all ()
- void langSelection ()
- int main ()
- int check (char x[ANS])

Variables

- COORD coord = { 0,0 }
- rec item

4.1.1 Macro Definition Documentation

4.1.1.1 _CRT_SECURE_NO_WARNINGS

```
#define _CRT_SECURE_NO_WARNINGS
```

4.1.1.2 ACS

```
#define ACS 4
```

4.1.1.3 ANS

```
#define ANS 15
```

4.1.2 Function Documentation

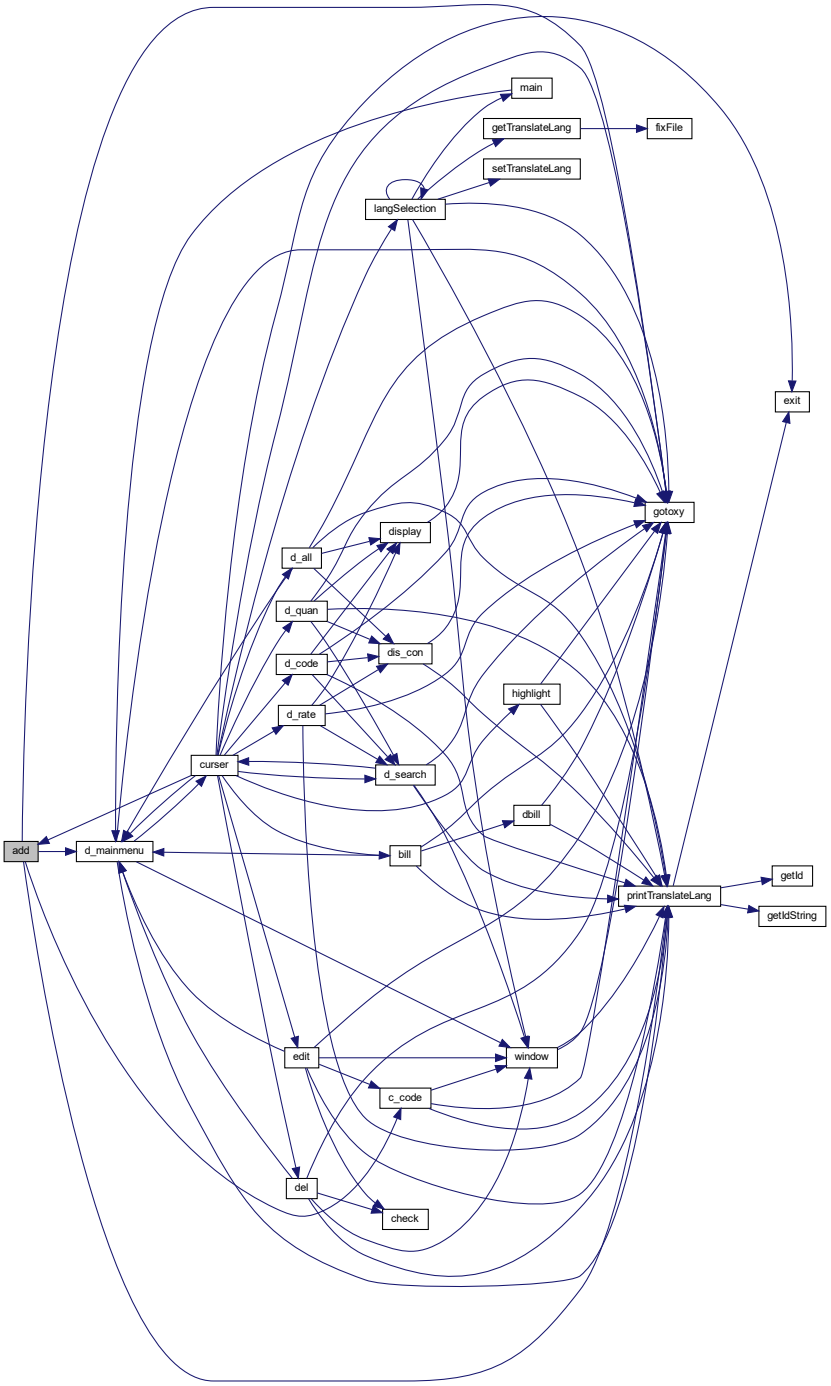
4.1.2.1 add()

```
void add ( )
```

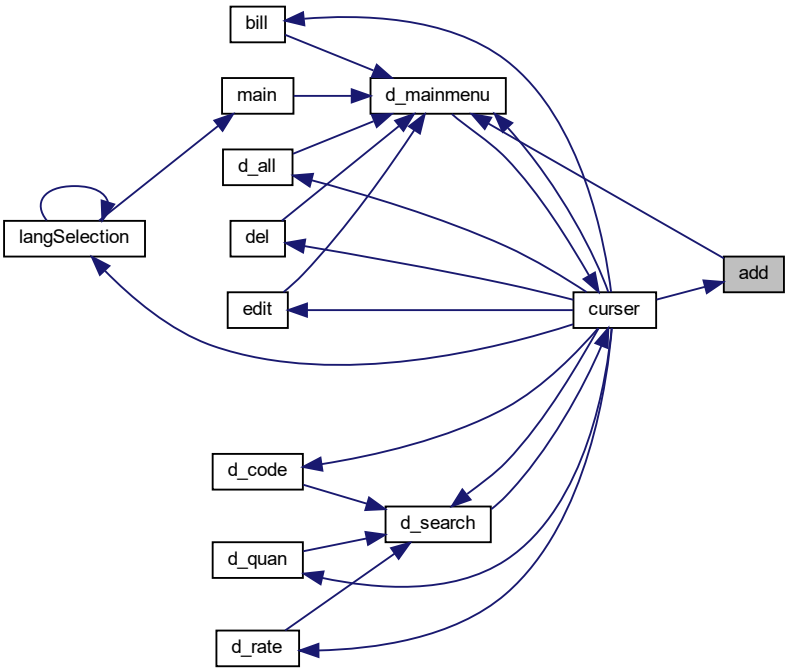
References ACS, c_code(), rec::code, d_mainmenu(), enter_name_of_the_item, enter_new_record_yn, enter_quantity_of_the_item, enter_rate_of_the_item, gotoxy(), item, rec::name, printTranslateLang(), rec::quantity, and rec::rate.

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



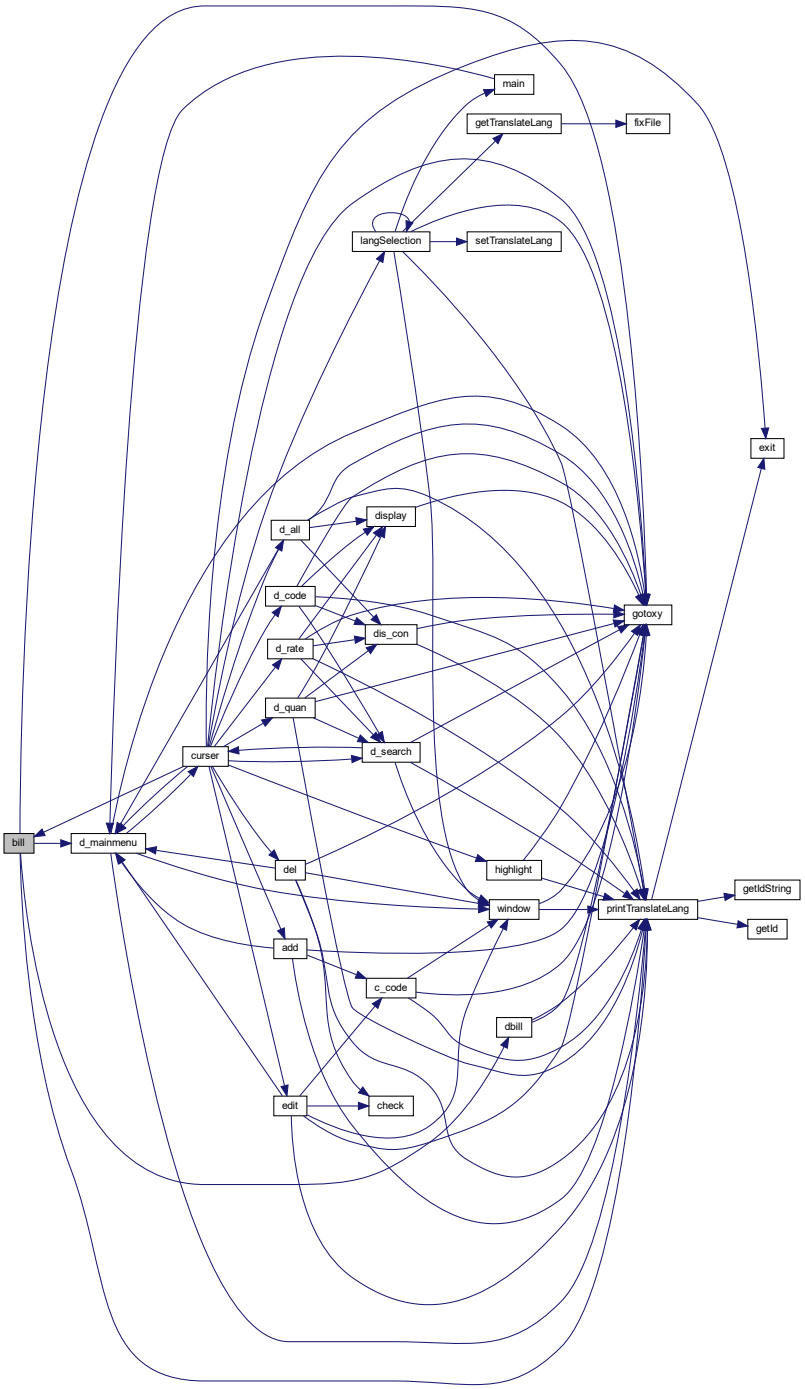
4.1.2.2 bill()

```
void bill ( )
```

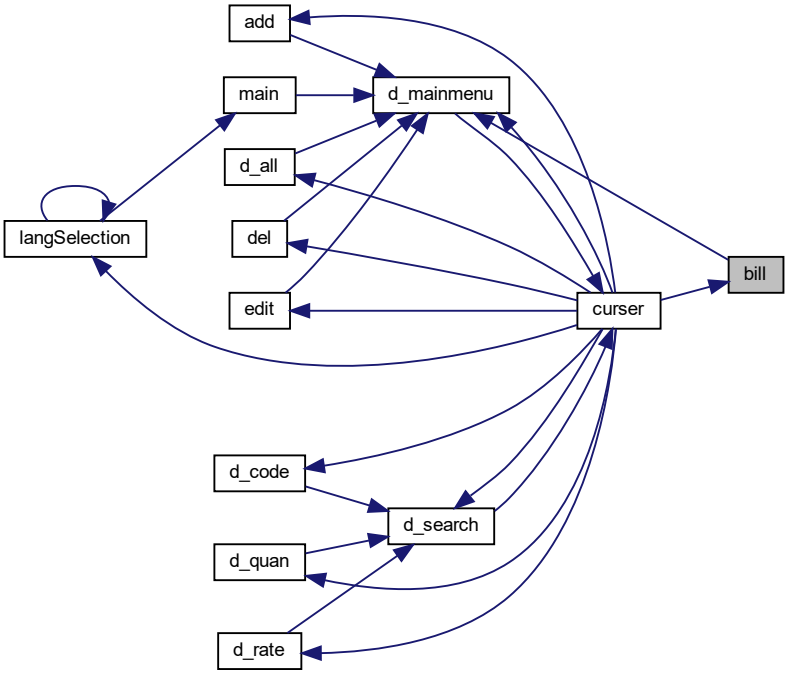
References rec::code, d_mainmenu(), dbill(), enter_end_to_finish_input, enter_item_code, enter_quantity, gotoxy(), item, rec::name, printTranslateLang(), rec::quantity, rec::rate, and total_amount_nrs.

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



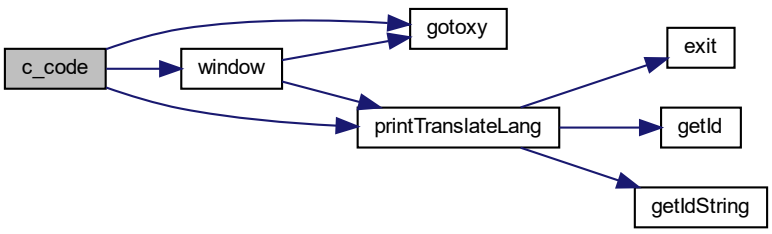
4.1.2.3 c_code()

```
void c_code (
            char y[] )
```

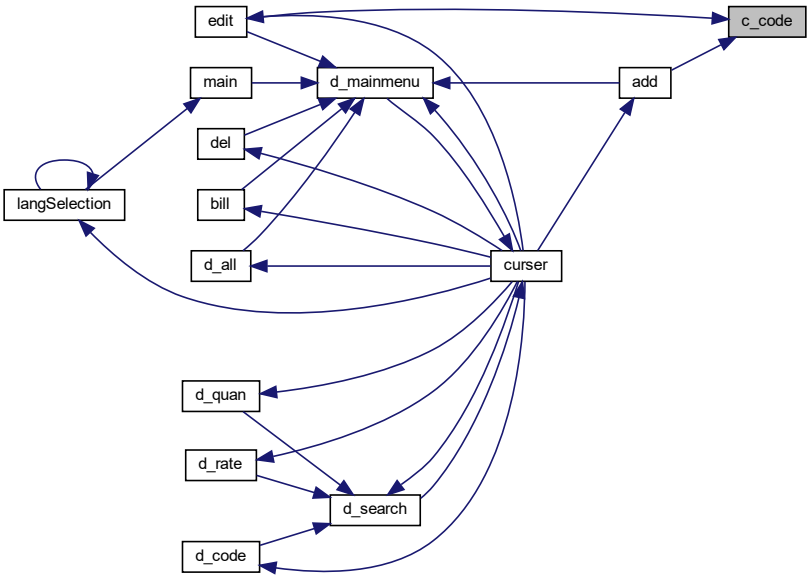
References add_articles, rec::code, code_already_exists, enter_again, enter_new_code_of_the_article, gotoxy(), item, printTranslateLang(), and window().

Referenced by add(), and edit().

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.2.4 check() [1/2]

```
int check (
            char x[ANS] )
```

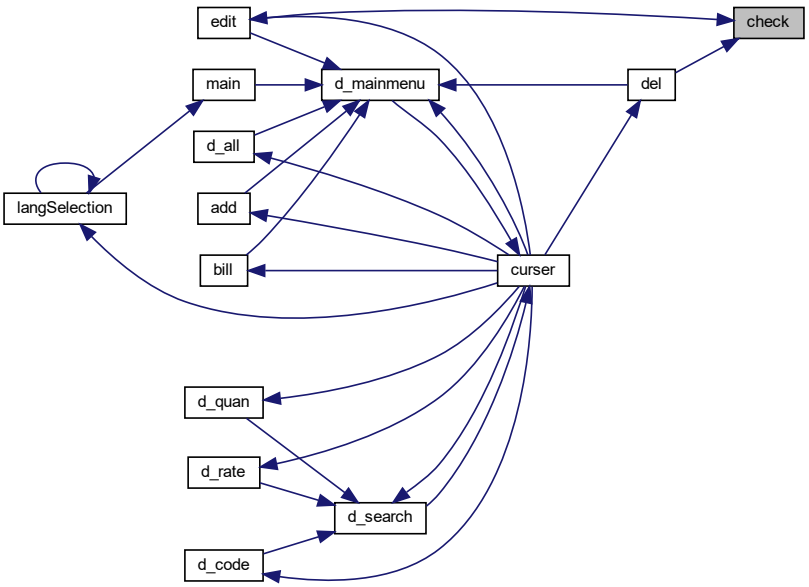
References rec::code, and item.

4.1.2.5 check() [2/2]

```
int check (
            char [] )
```

Referenced by del(), and edit().

Here is the caller graph for this function:



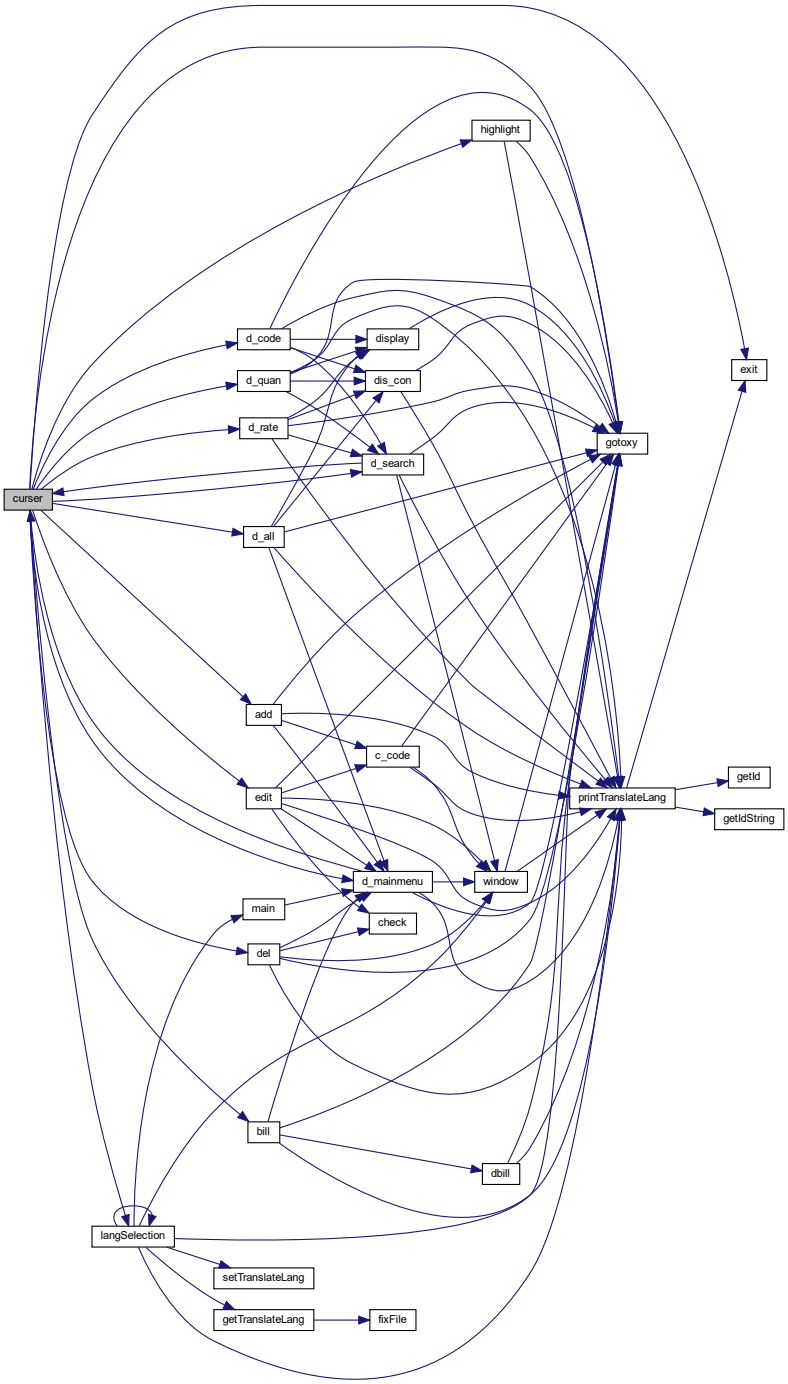
4.1.2.6 curser()

```
void curser (
            int no )
```

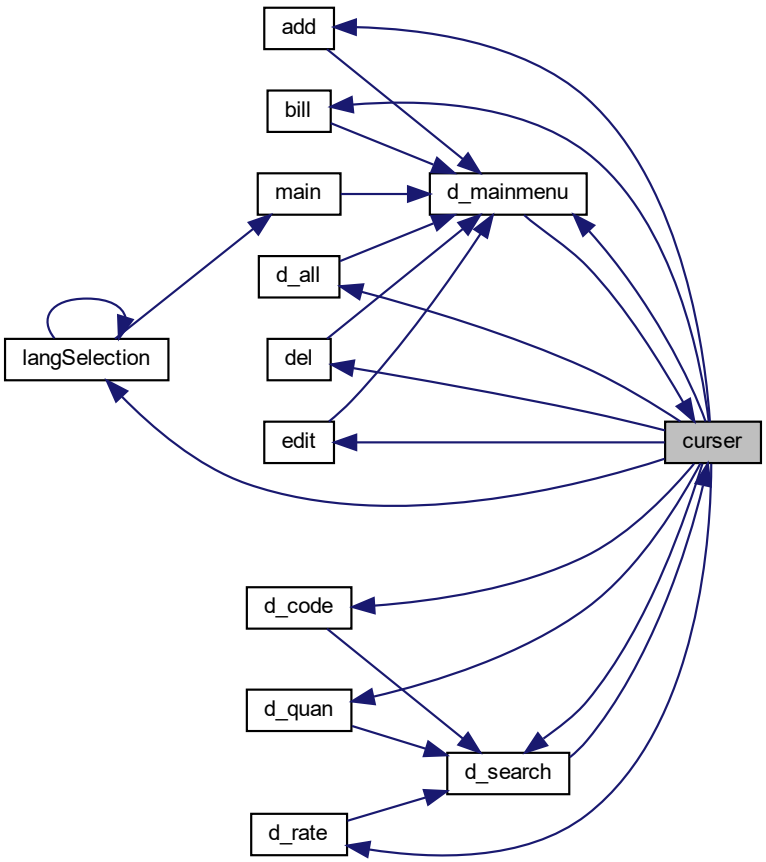
References add(), bill(), d_all(), d_code(), d_mainmenu(), d_quan(), d_rate(), d_search(), del(), edit(), exit(), gotoxy(), highlight(), and langSelection().

Referenced by d_mainmenu(), and d_search().

Here is the call graph for this function:



Here is the caller graph for this function:



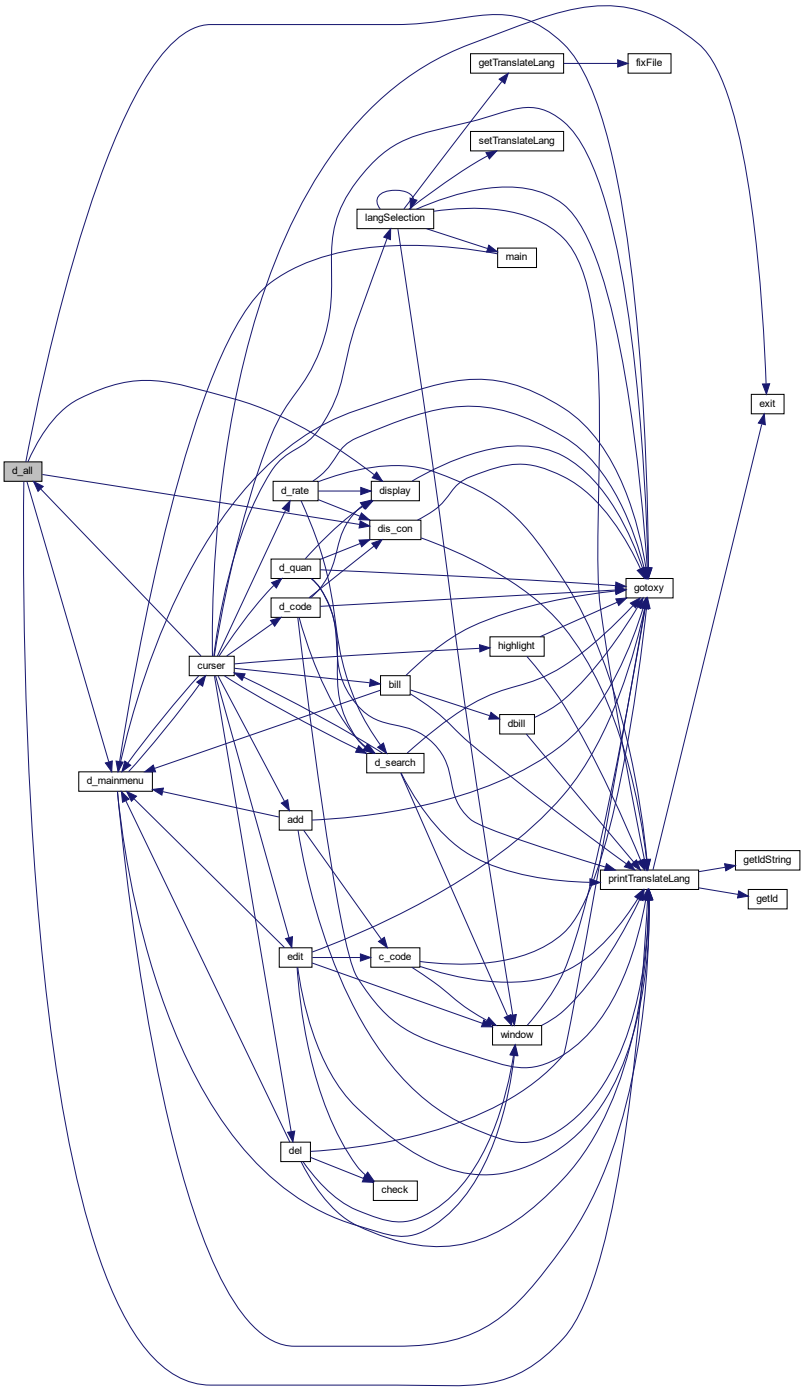
4.1.2.7 d_all()

```
void d_all ( )
```

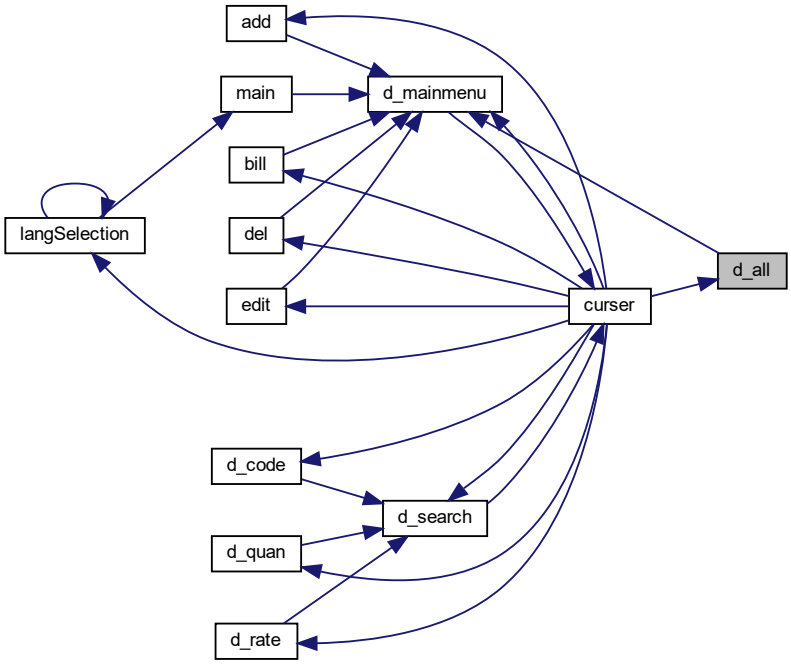
References d_mainmenu(), dis_con(), display(), gotoxy(), item, no_articles_found, press_any_key_to_see_more, and printTranslateLang().

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



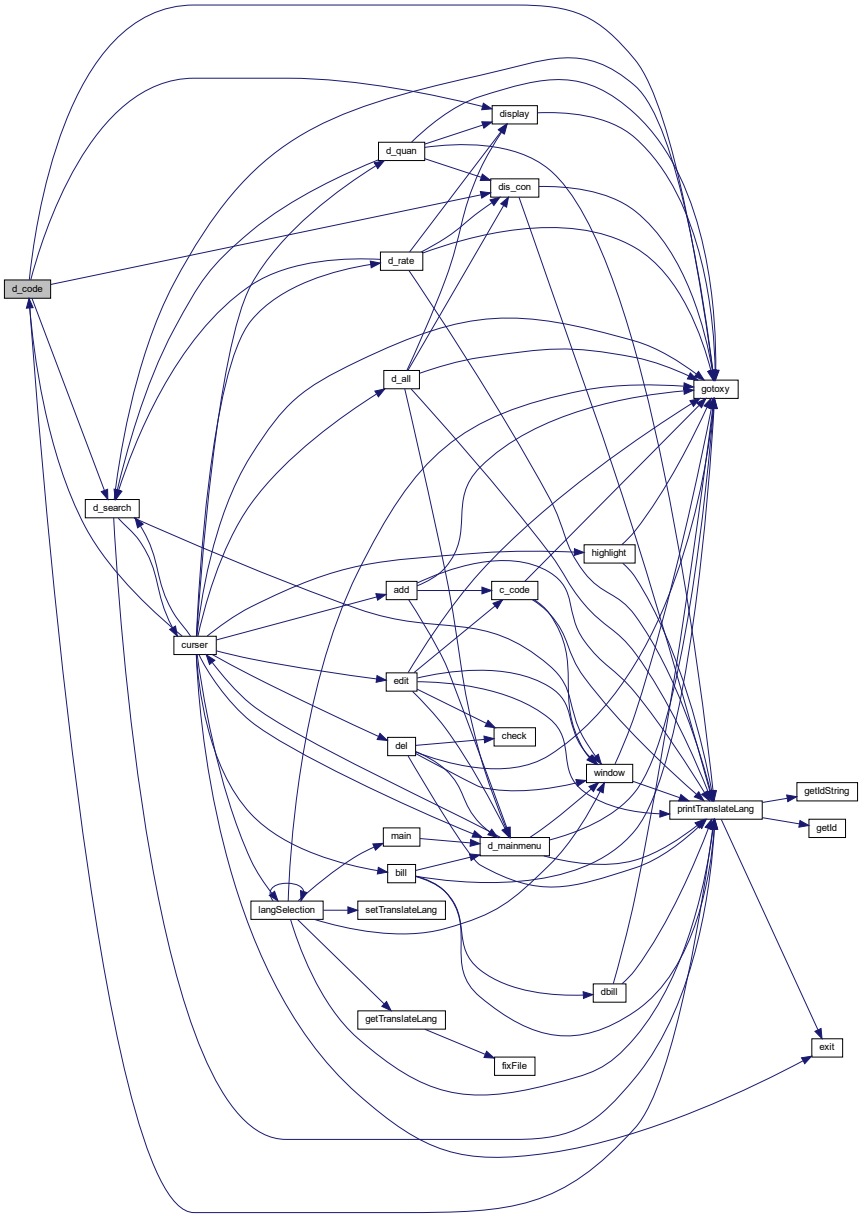
4.1.2.8 d_code()

```
void d_code ( )
```

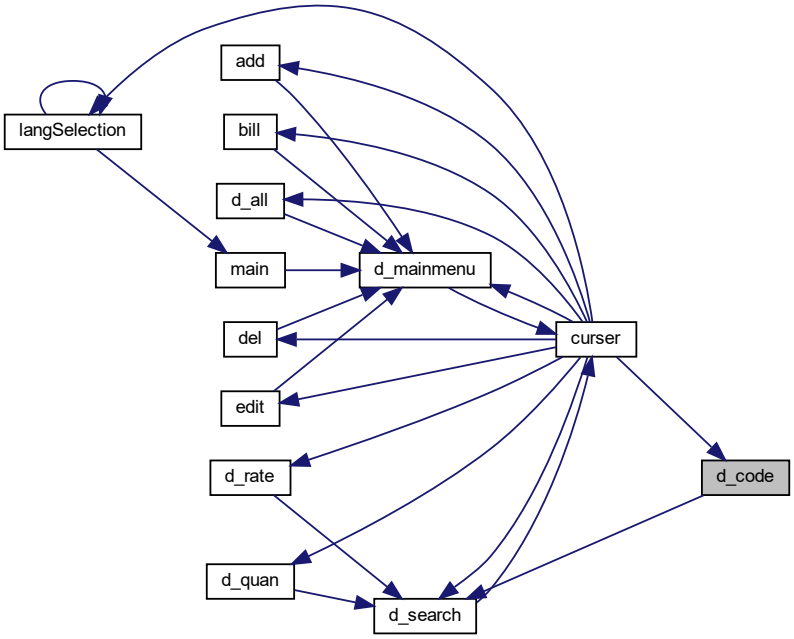
References rec::code, d_search(), dis_con(), display(), enter_item_code, gotoxy(), item, no_item_found, and printTranslateLang().

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



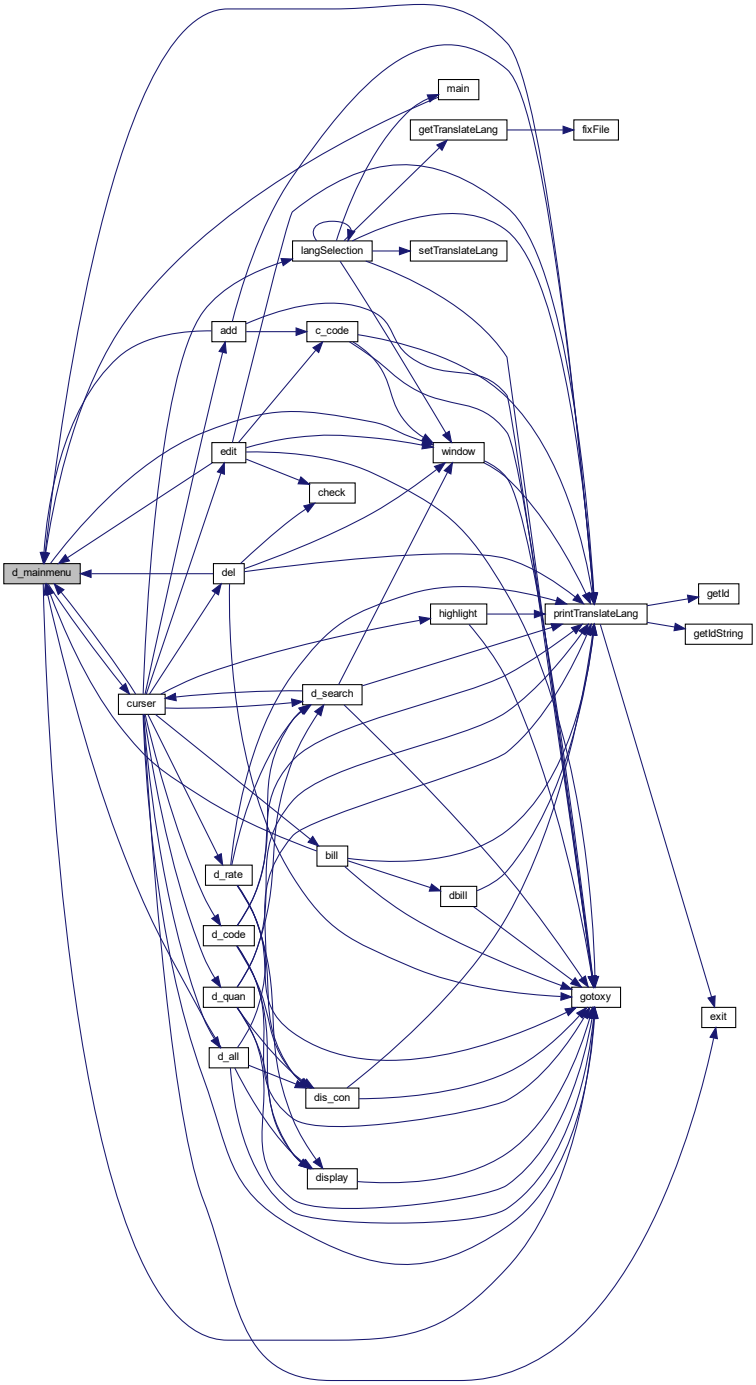
4.1.2.9 d_mainmenu()

```
void d_mainmenu ( )
```

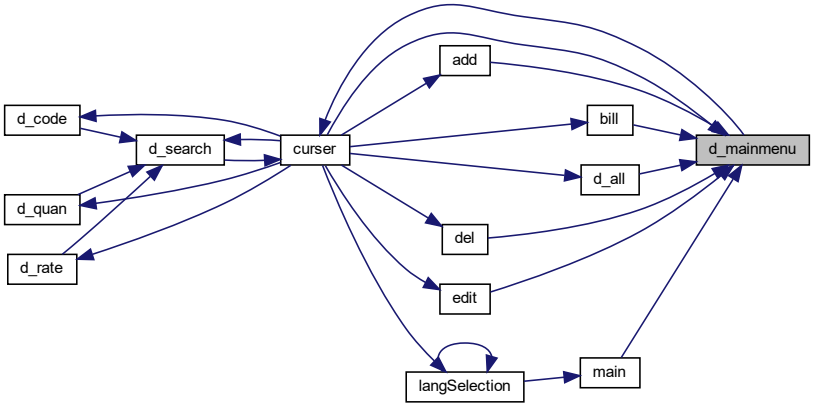
References curser(), gotoxy(), main_menu, printTranslateLang(), and window().

Referenced by add(), bill(), curser(), d_all(), del(), edit(), and main().

Here is the call graph for this function:



Here is the caller graph for this function:



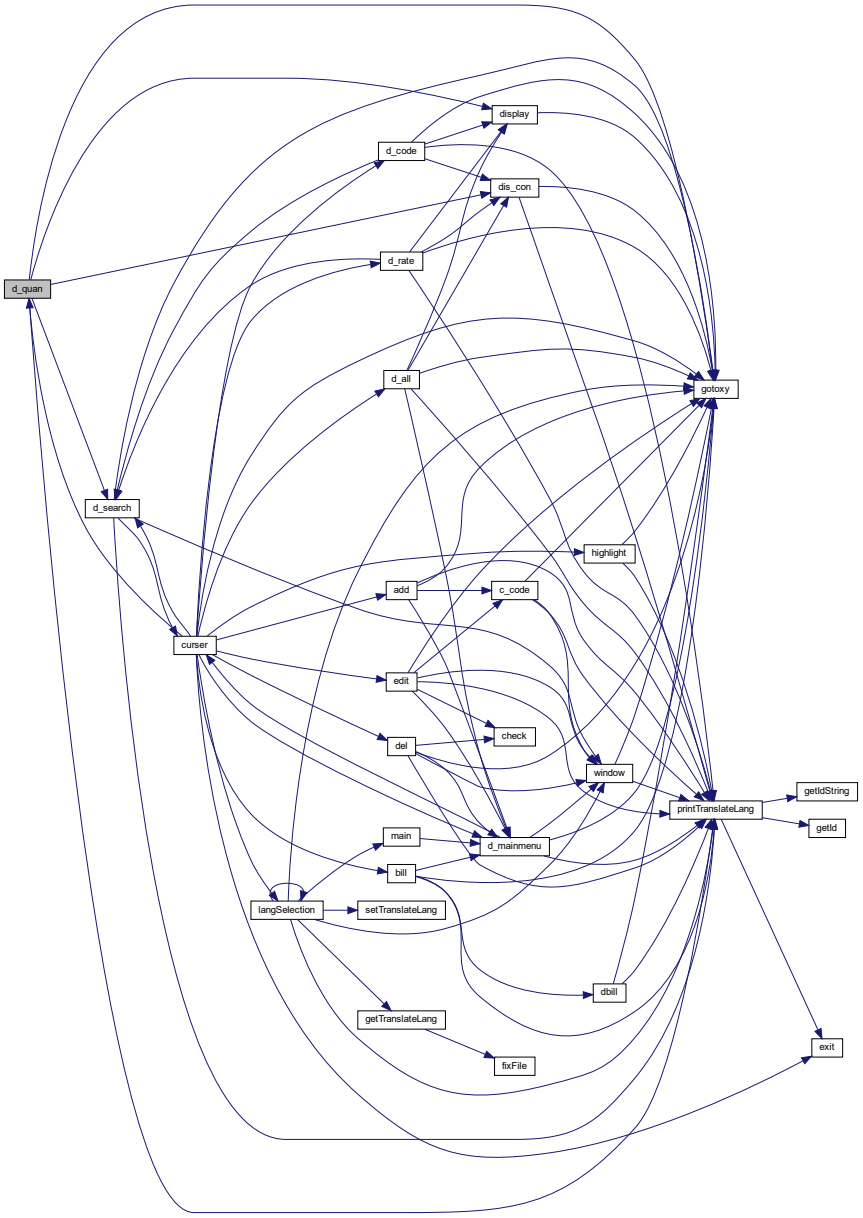
4.1.2.10 d_quan()

```
void d_quan ( )
```

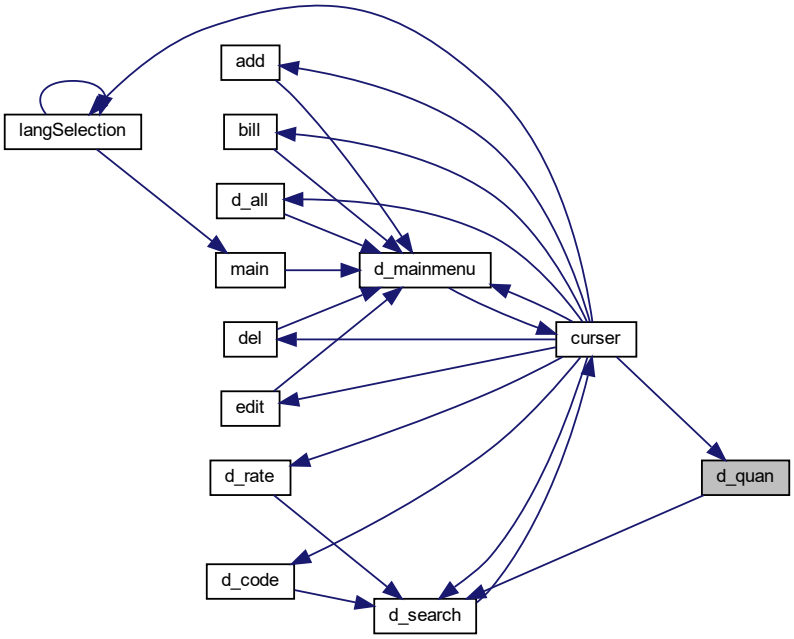
References d_search(), dis_con(), display(), enter_lower_range, enter_upper_range, gotoxy(), item, no_items_found, press_any_key_to_see_more, printTranslateLang(), and rec::quantity.

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



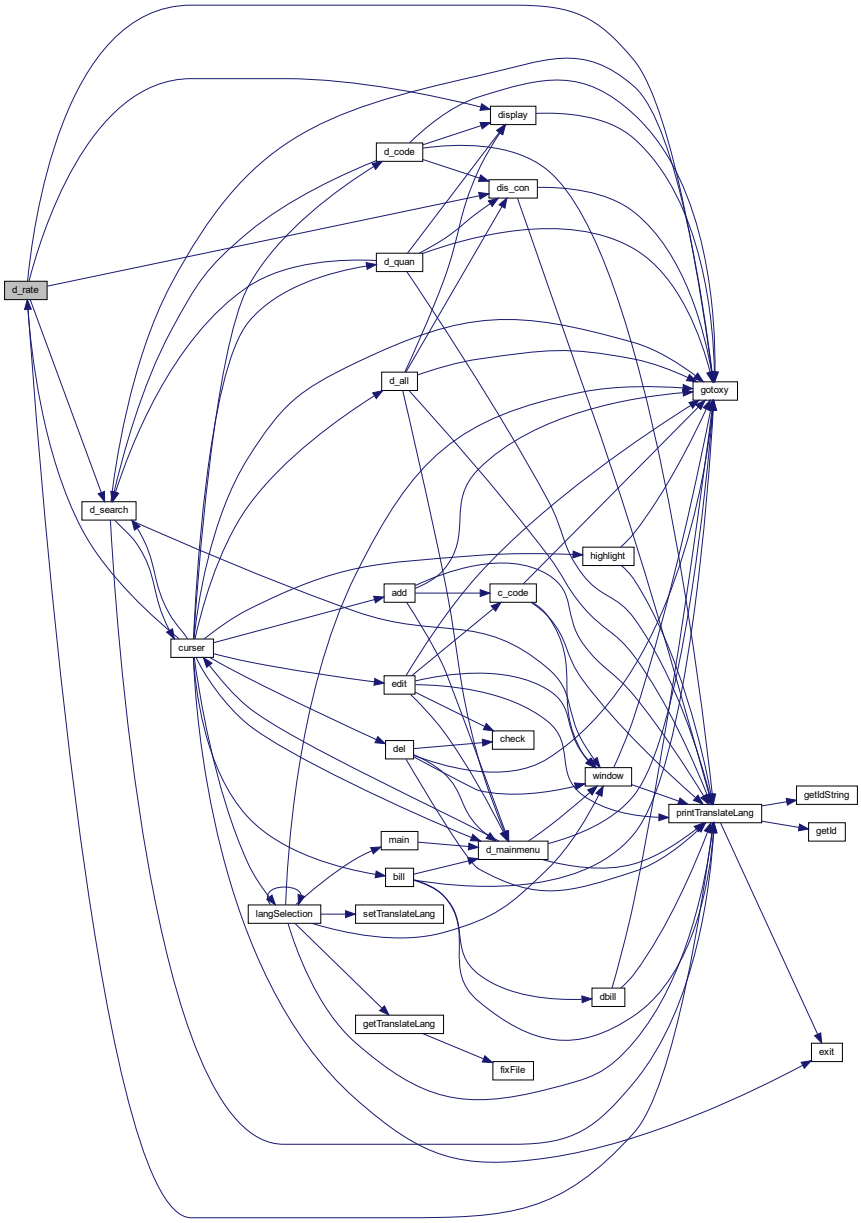
4.1.2.11 d_rate()

```
void d_rate ( )
```

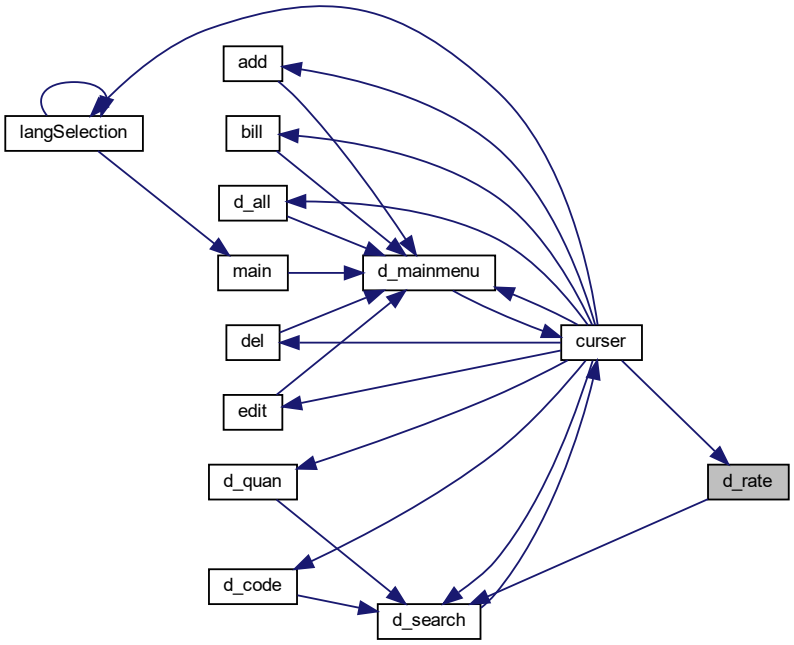
References d_search(), dis_con(), display(), enter_lower_range, enter_upper_range, gotoxy(), item, no_item_found, press_any_key_to_see_more, printTranslateLang(), and rec::rate.

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



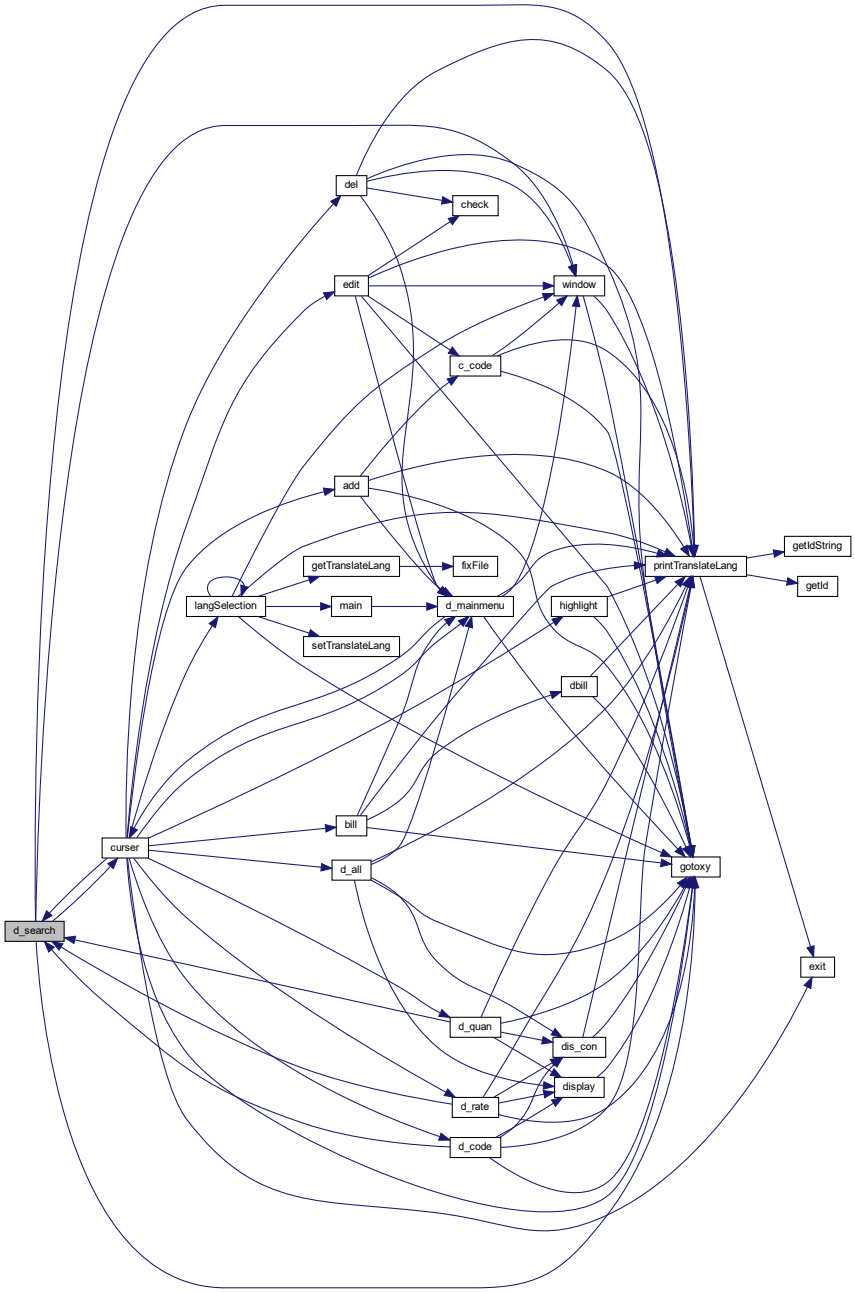
4.1.2.12 d_search()

```
void d_search ( )
```

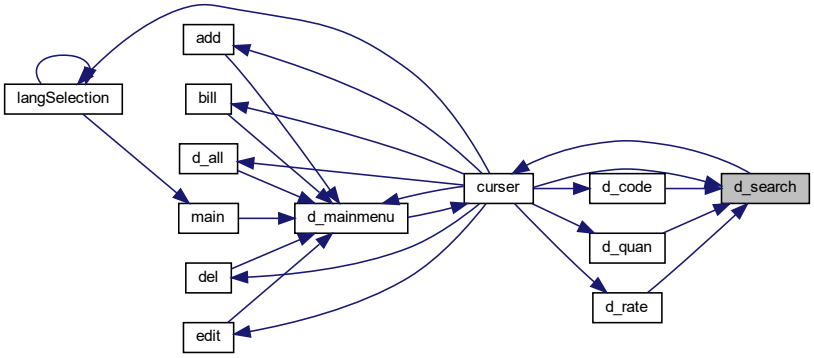
References curser(), gotoxy(), printTranslateLang(), search_menu, and window().

Referenced by curser(), d_code(), d_quan(), and d_rate().

Here is the call graph for this function:



Here is the caller graph for this function:



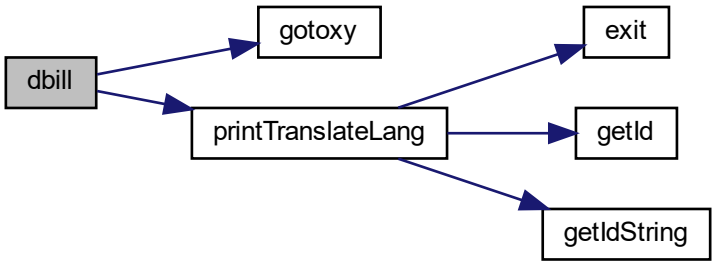
4.1.2.13 dbill()

```
void dbill ( )
```

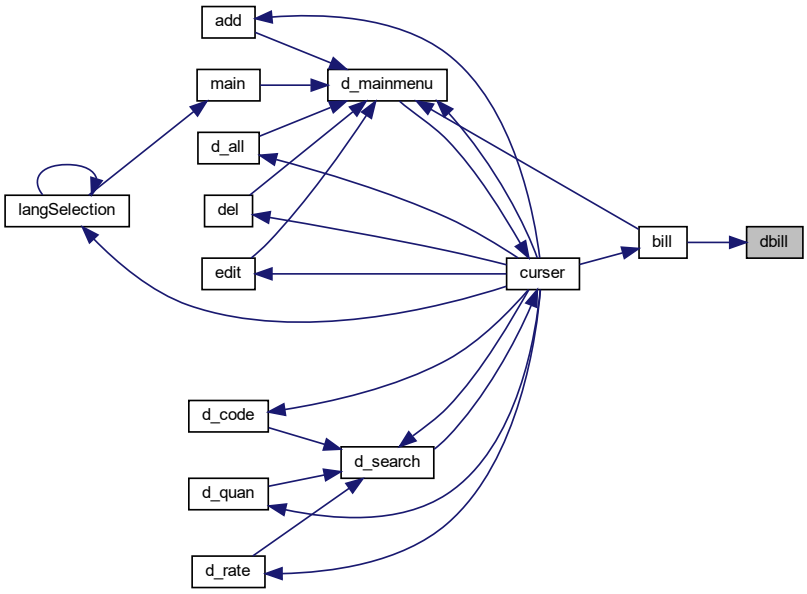
References customers_bill, departmental_store, fashion_wear, gotoxy(), printTranslateLang(), and sn_itemname_quantity_rate_total.

Referenced by bill().

Here is the call graph for this function:



Here is the caller graph for this function:



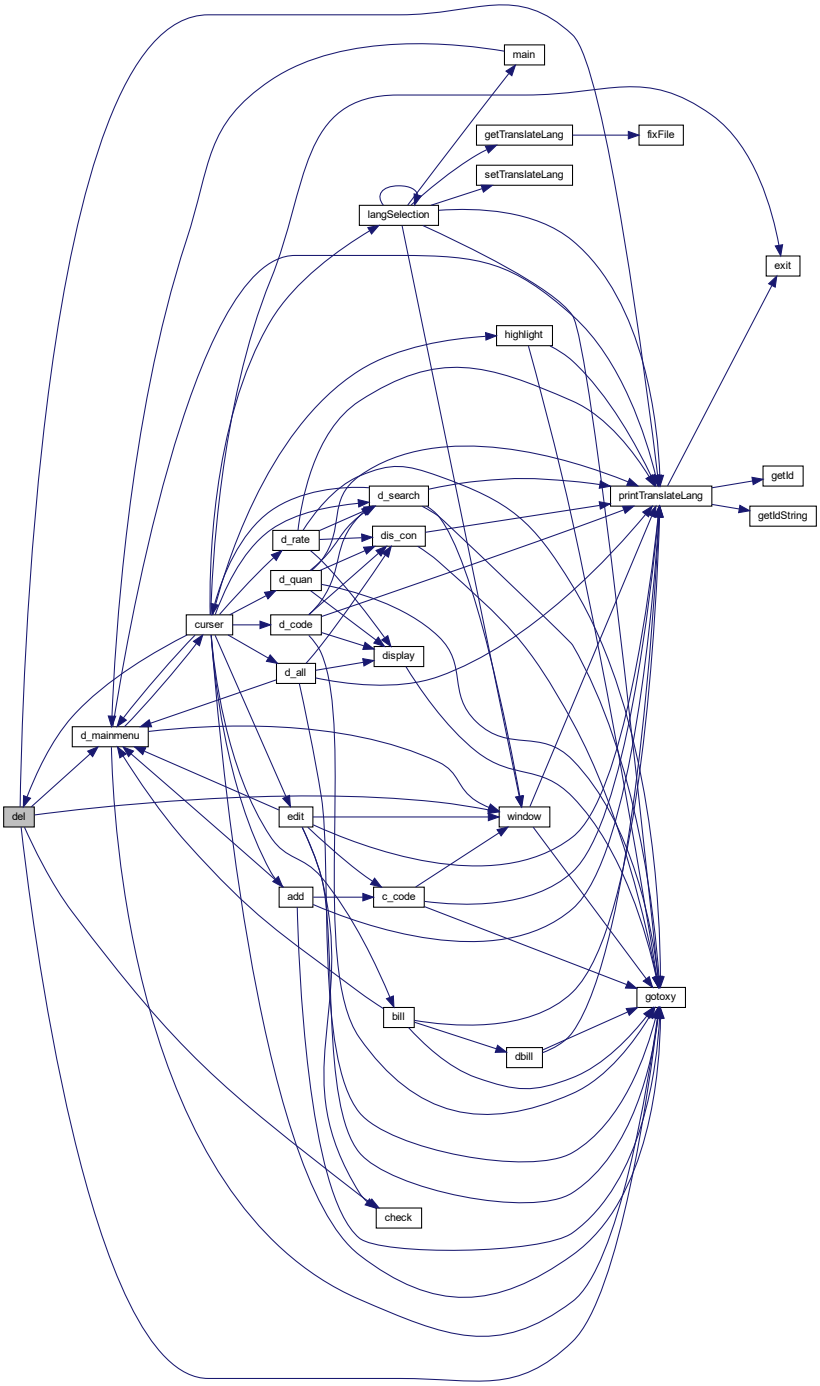
4.1.2.14 del()

```
void del ( )
```

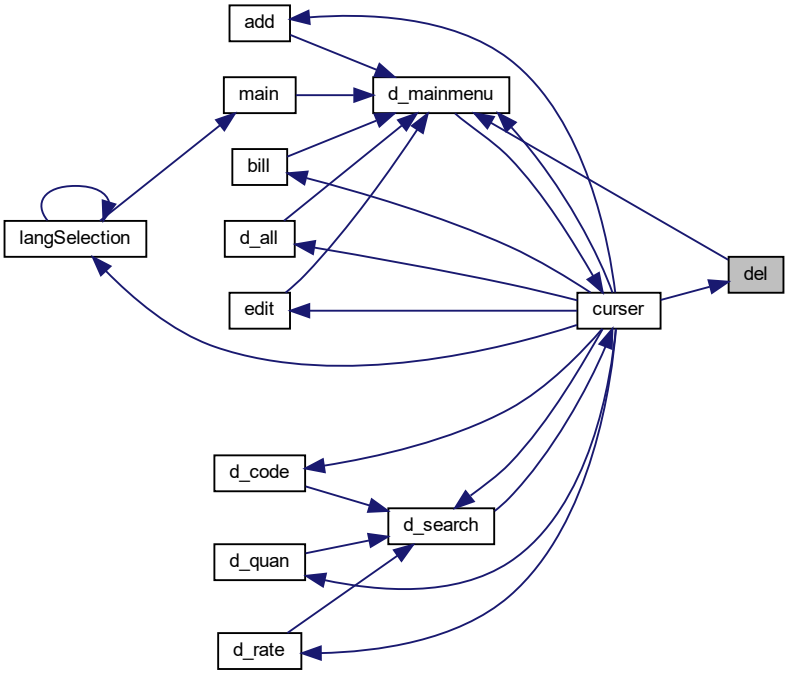
References ANS, check(), rec::code, d_mainmenu(), delete_articles, enter_item_code, gotoxy(), item, item_deleted, item_does_not_exist, printTranslateLang(), try_again, and window().

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



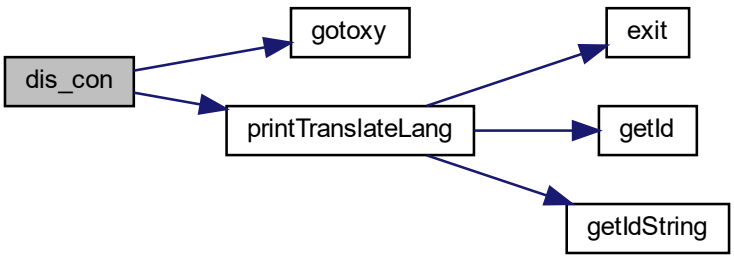
4.1.2.15 dis_con()

```
void dis_con ( )
```

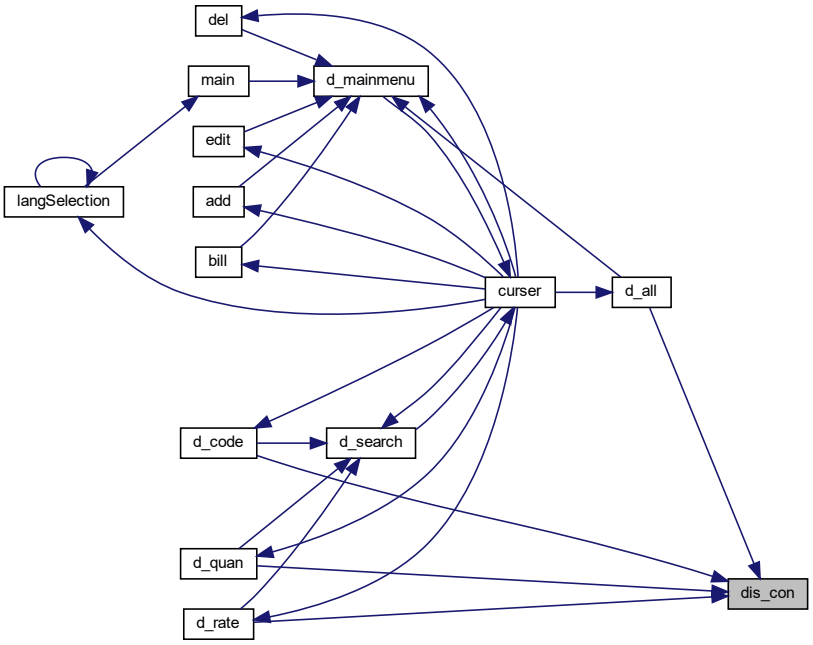
References departmental_store, fashion_wear, gotoxy(), printTranslateLang(), records, and sn_itemname_itemcode_rate_quantity.

Referenced by d_all(), d_code(), d_quan(), and d_rate().

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.2.16 display()

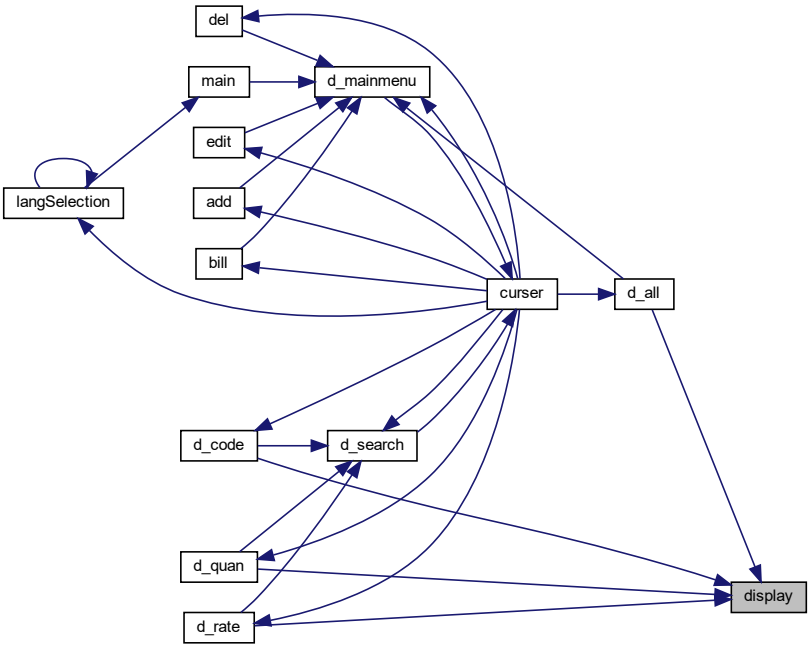
```
void display (
             rec * item,
             int i,
             int j )
```

References rec::code, gotoxy(), item, rec::name, rec::quantity, and rec::rate.

Referenced by d_all(), d_code(), d_quan(), and d_rate().

Here is the call graph for this function:

Here is the caller graph for this function:



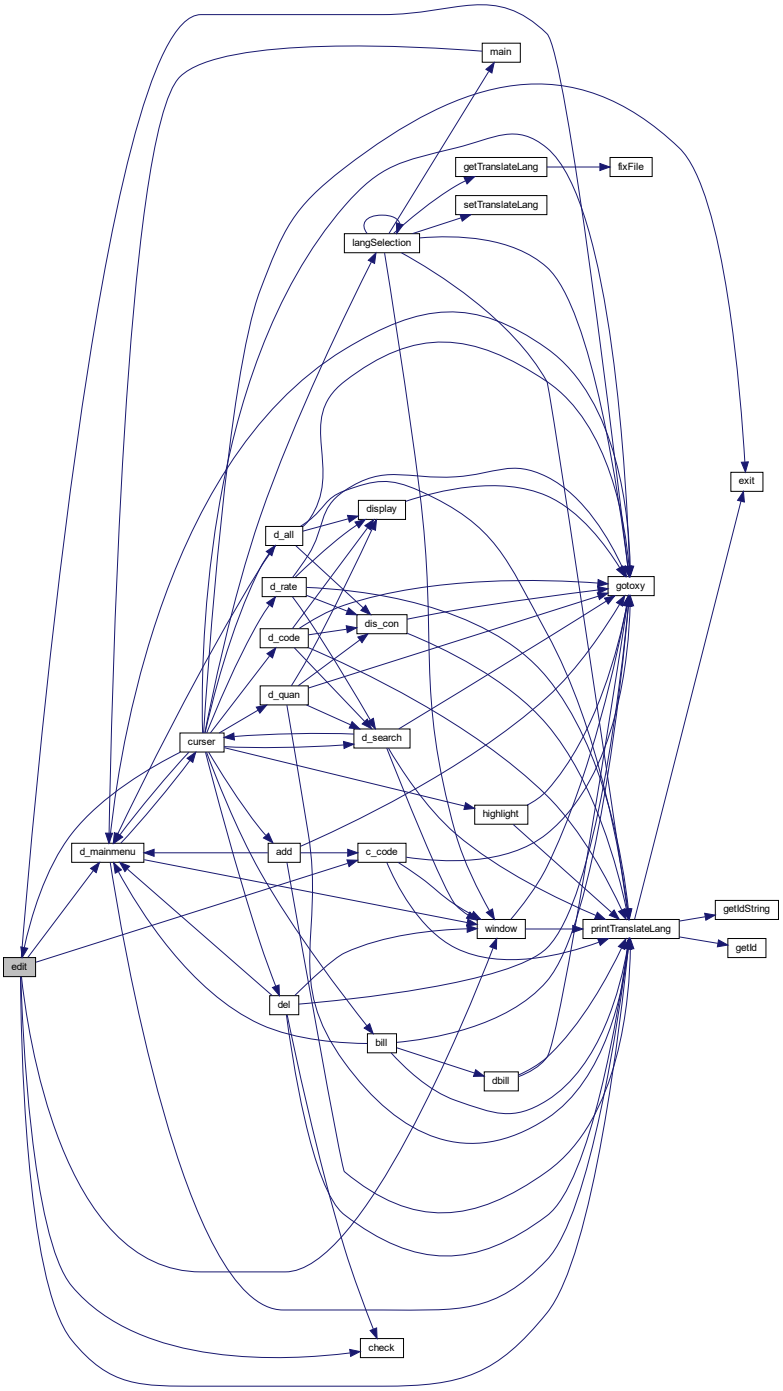
4.1.2.17 edit()

```
void edit ( )
```

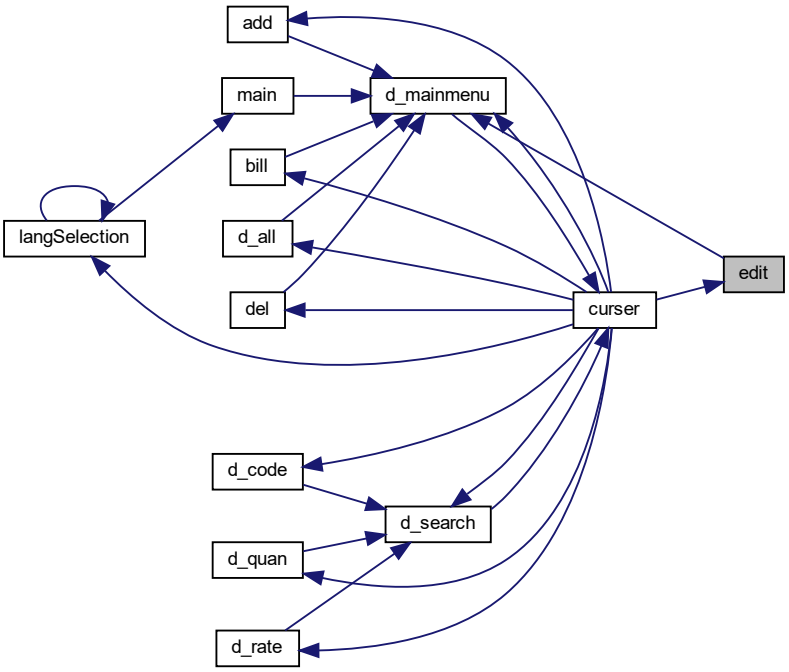
References ACS, c_code(), check(), rec::code, code_s, d_mainmenu(), do_you_want_to_edit_this_code_yn, edit_records, enter_item_code, enter_new_name, enter_new_quantity, enter_new_rate, enter_your_choice_1234, f_edit_quantity, gotoxy(), item, item_does_not_exist, item_edited, rec::name, name_s, o_edit_name, printTranslateLang(), rec::quantity, quantity_d, rec::rate, rate_g, t_edit_code, t_edit_rate, try_again, and window().

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:

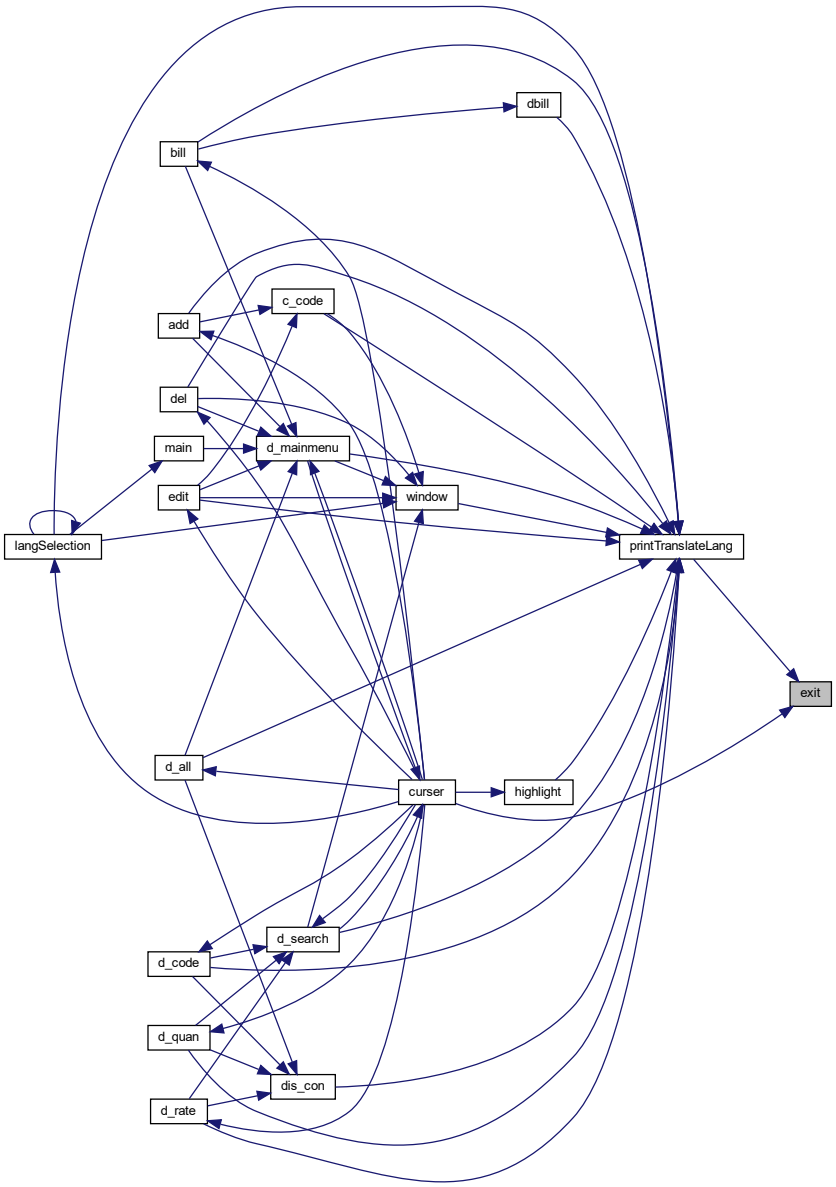


4.1.2.18 exit()

```
void exit ( )
```

Referenced by curser(), and printTranslateLang().

Here is the caller graph for this function:



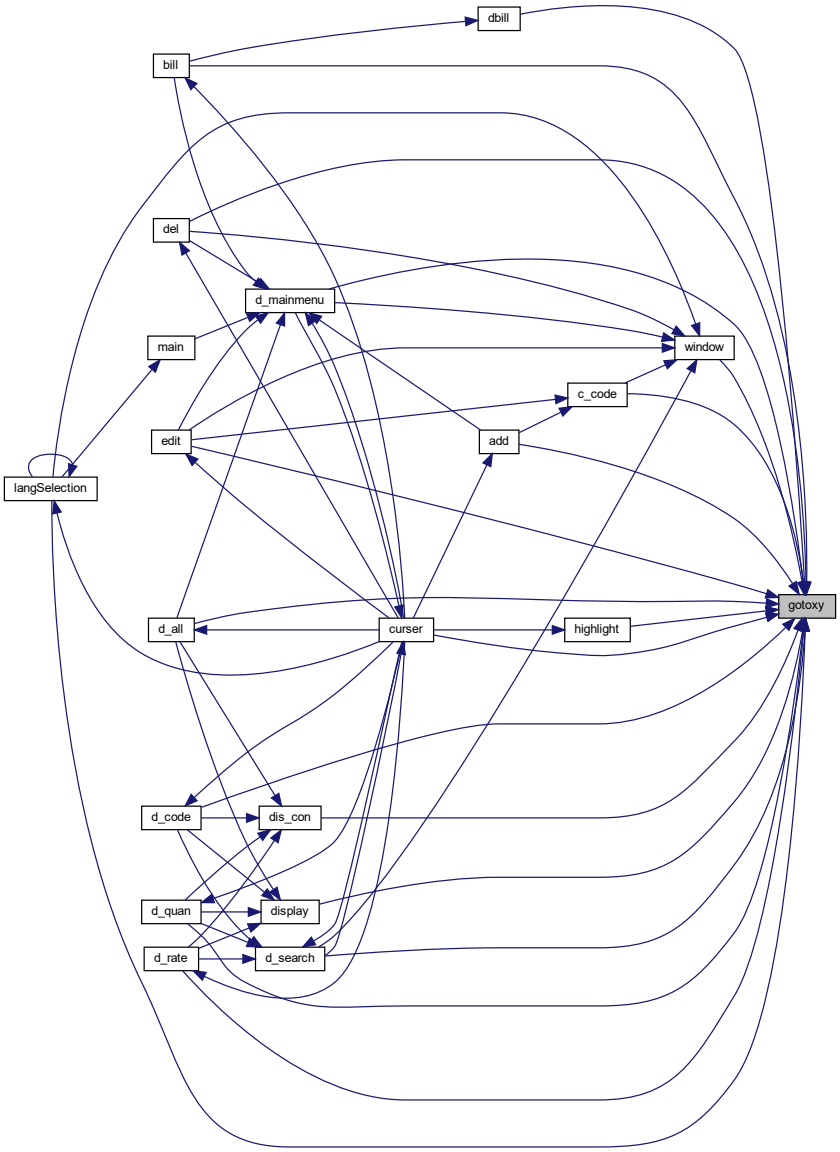
4.1.2.19 gotoxy()

```
void gotoxy (
            int x,
            int y )
```

References coord.

Referenced by add(), bill(), c_code(), curser(), d_all(), d_code(), d_mainmenu(), d_quan(), d_rate(), d_search(), dbill(), del(), dis_con(), display(), edit(), highlight(), langSelection(), and window().

Here is the caller graph for this function:



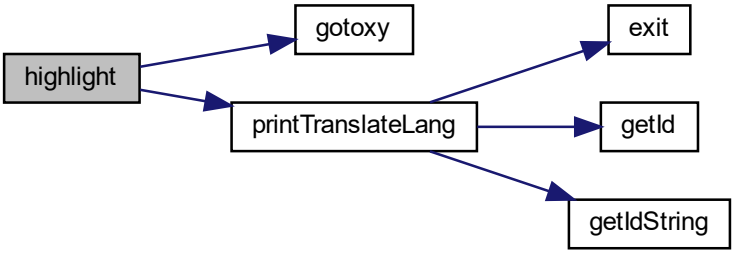
4.1.2.20 highlight()

```
void highlight (
            int no,
            int count )
```

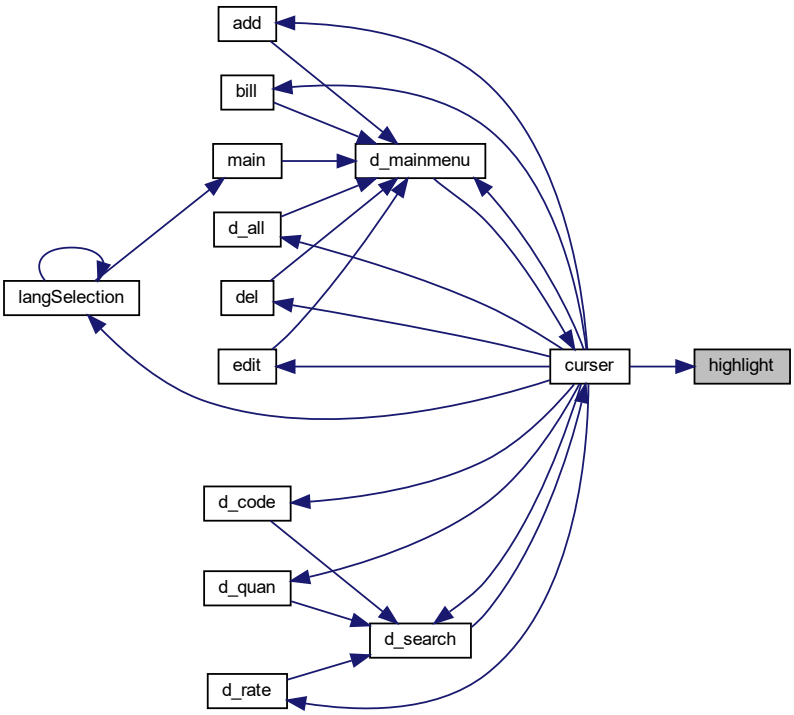
References add_goods, add_goods2, back_to_main_menu, back_to_main_menu2, by_code, by_code2, by_quantity, by_quantity2, by_rate, by_rate2, calculate_bill, calculate_bill2, cexit, cexit2, change_language, change_language2, delete_goods, delete_goods2, display_all, display_all2, edit_goods, edit_goods2, gotoxy(), printTranslateLang(), search, and search2.

Referenced by curser().

Here is the call graph for this function:



Here is the caller graph for this function:



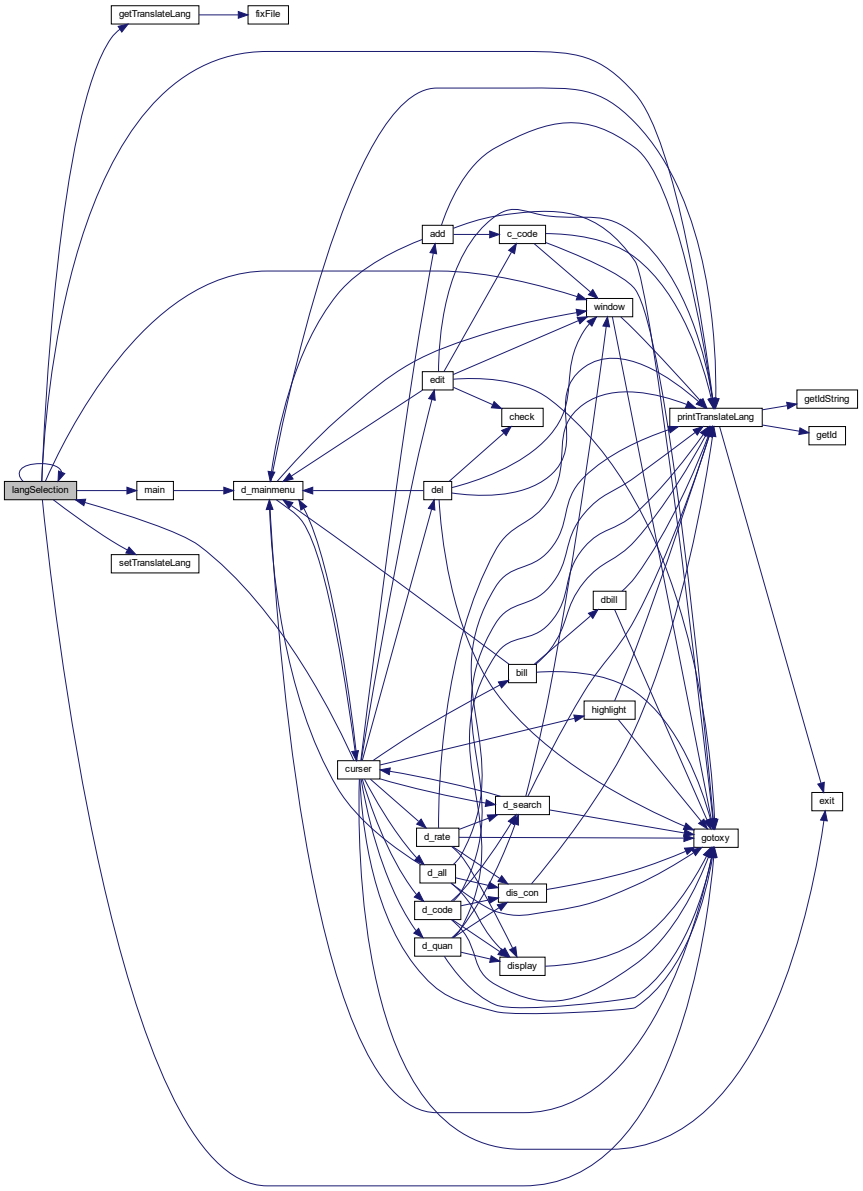
4.1.2.21 langSelection()

```
void langSelection ( )
```

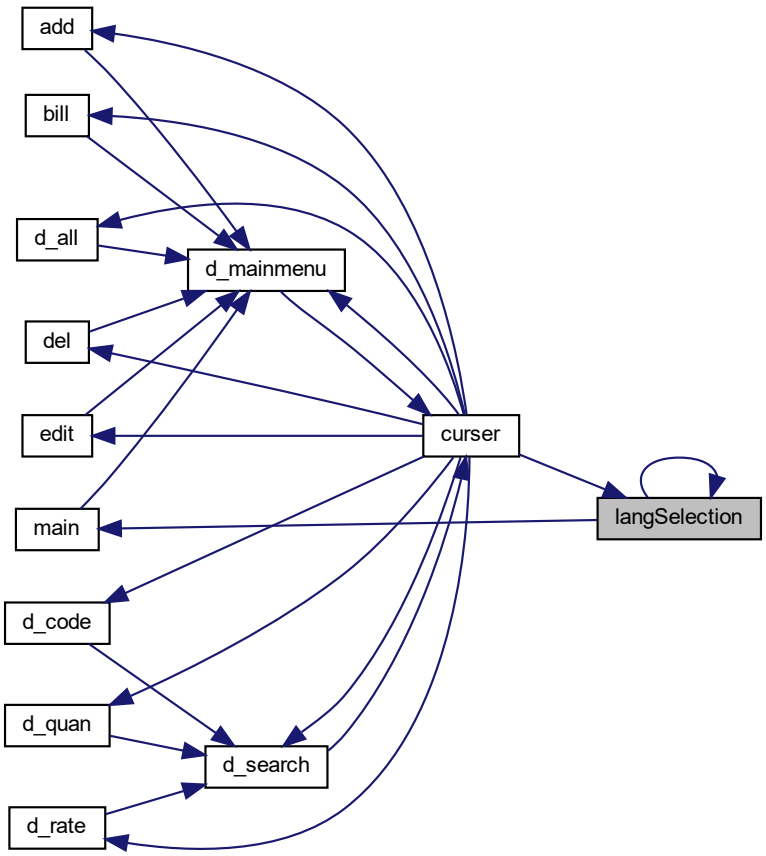
References APP_LANG_TR, change_language3, confirm_lang_change, ENGLISH_L, for_english_press, for_turkish_press, getTranslateLang(), gotoxy(), langSelection(), main(), printTranslateLang(), setTranslateLang(), TURKISH_L, and window().

Referenced by curser(), and langSelection().

Here is the call graph for this function:



Here is the caller graph for this function:



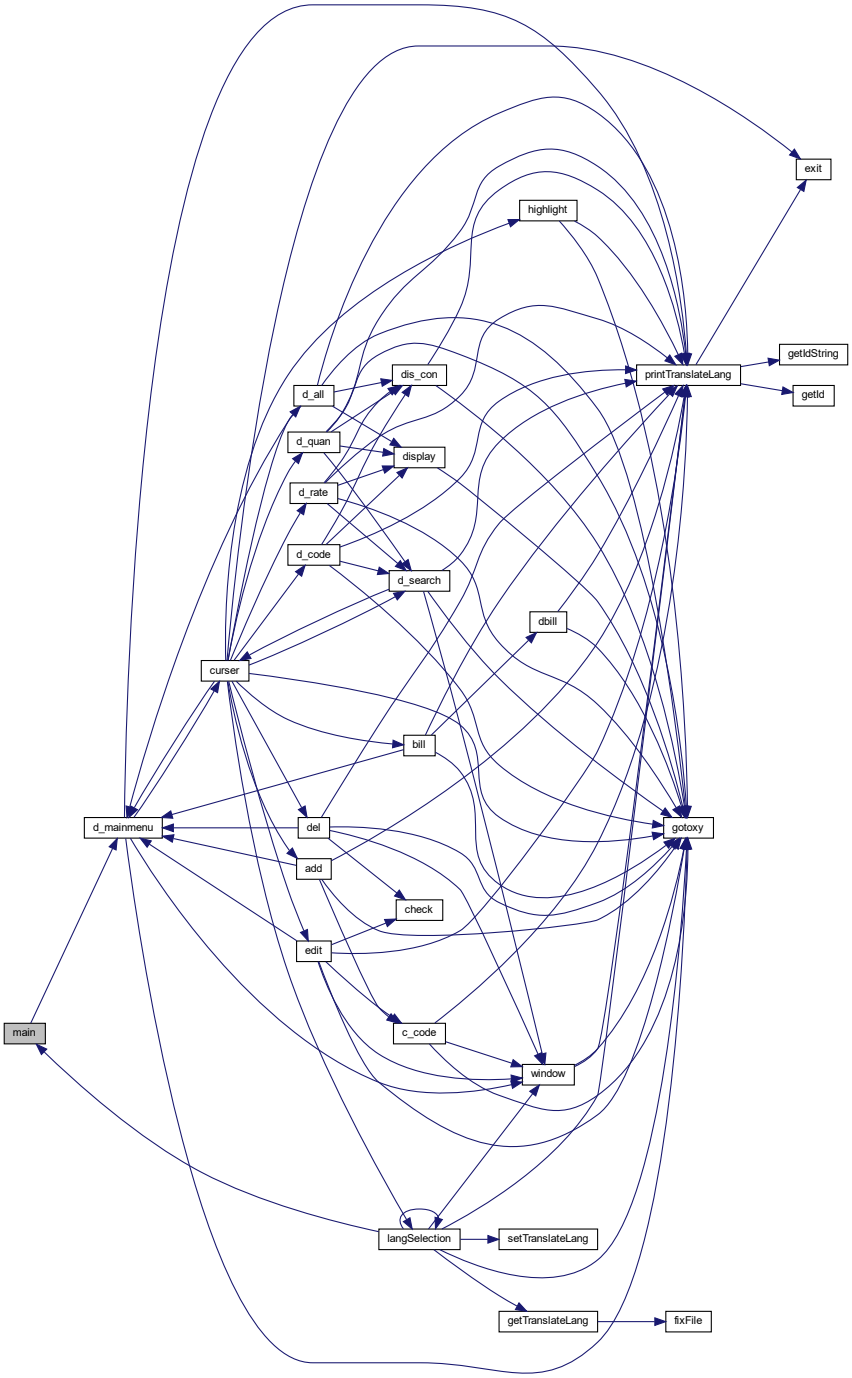
4.1.2.22 main()

```
int main ( )
```

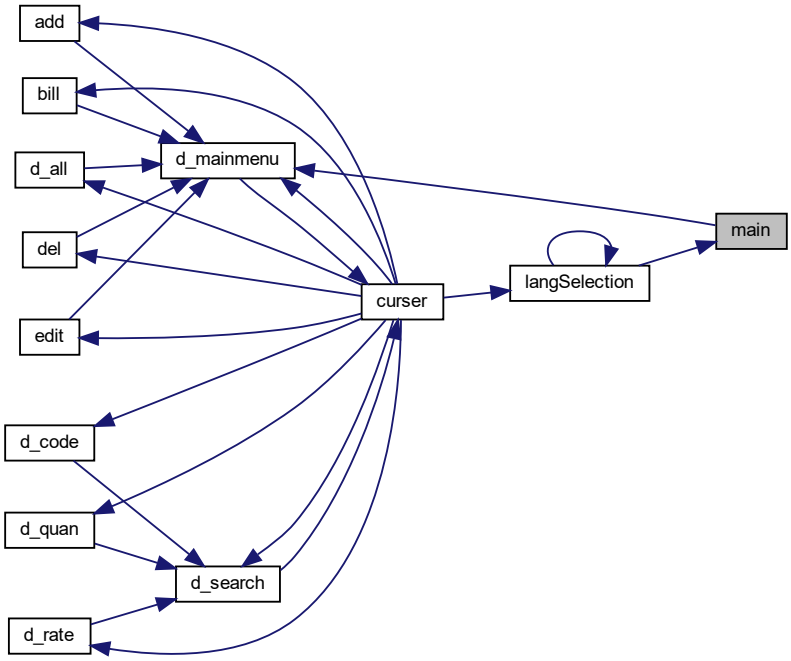
References d_mainmenu().

Referenced by langSelection().

Here is the call graph for this function:



Here is the caller graph for this function:



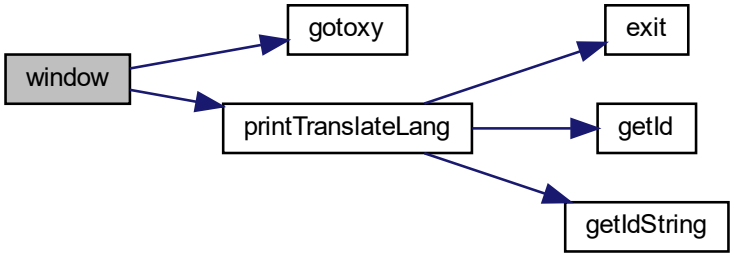
4.1.2.23 window()

```
void window (
            int a,
            int b,
            int c,
            int d )
```

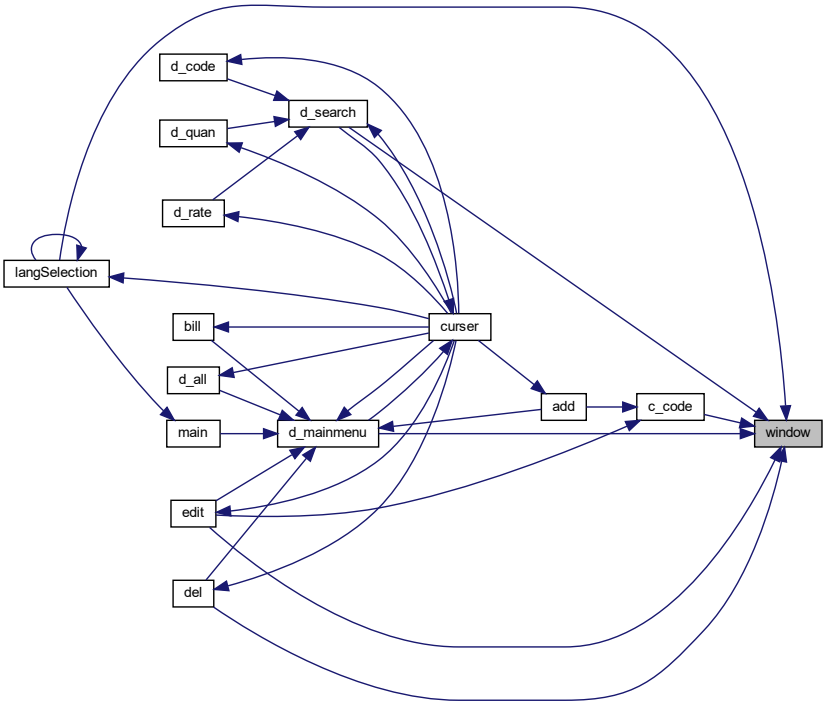
References departmental_store, fashion_wear, gotoxy(), and printTranslateLang().

Referenced by c_code(), d_mainmenu(), d_search(), del(), edit(), and langSelection().

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3 Variable Documentation

4.1.3.1 coord

```
COORD coord = { 0,0 }
```

Referenced by gotoxy().

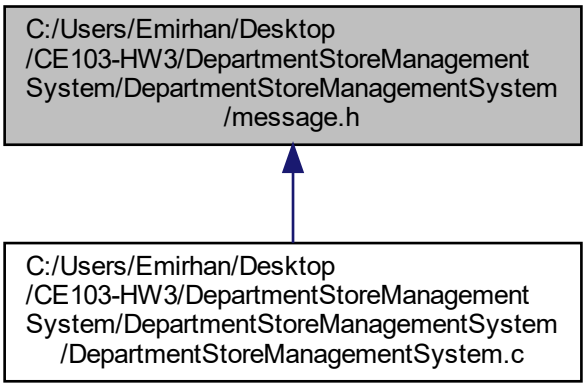
4.1.3.2 item

```
rec item
```

Referenced by add(), bill(), c_code(), check(), d_all(), d_code(), d_quan(), d_rate(), del(), display(), and edit().

4.2 C:/Users/Emirhan/Desktop/CE103-HW3/DepartmentStore↩ ManagementSystem/DepartmentStoreManagement↩ System/message.h File Reference

This graph shows which files directly or indirectly include this file:



Macros

- #define main_menu 1
- #define search_menu 2
- #define by_code 3
- #define by_rate 4
- #define by_quantity 5
- #define back_to_main_menu 6
- #define calculate_bill 7
- #define add_goods 8
- #define edit_goods 9
- #define display_all 10
- #define search 11
- #define delete_goods 12
- #define change_language 13
- #define cexit 14
- #define enter_end_to_finish_input 15
- #define enter_item_code 16
- #define enter_quantity 17

- #define total_amount_nrs 18
- #define fashion_wear 19
- #define departmental_store 20
- #define customers_bill 21
- #define sn_itemname_quantity_rate_total 22
- #define enter_new_record_yn 23
- #define enter_rate_of_the_item 24
- #define enter_quantity_of_the_item 25
- #define enter_name_of_the_item 26
- #define add_articles 27
- #define enter_new_code_of_the_article 28
- #define code_already_exists 29
- #define enter_again 30
- #define edit_records 31
- #define name_s 32
- #define code_s 33
- #define rate_g 34
- #define quantity_d 35
- #define do_you_want_to_edit_this_code_yn 36
- #define o_edit_name 37
- #define t_edit_code 38
- #define t_edit_rate 39
- #define f_edit_quantity 40
- #define enter_your_choice_1234 41
- #define enter_new_name 42
- #define enter_new_rate 43
- #define enter_new_quantity 44
- #define item_edited 45
- #define item_does_not_exist 46
- #define try_again 47
- #define press_any_key_to_see_more 48
- #define no_articles_found 49
- #define enter_lower_range 50
- #define enter_upper_range 51
- #define no_items_found 52
- #define no_item_found 53
- #define records 54
- #define sn_itemname_itemcode_rate_quantity 55
- #define delete_articles 56
- #define item_deleted 57
- #define by_code2 58
- #define by_rate2 59
- #define by_quantity2 60
- #define back_to_main_menu2 61
- #define calculate_bill2 62
- #define add_goods2 63
- #define edit_goods2 64
- #define display_all2 65
- #define search2 66
- #define delete_goods2 67
- #define change_language2 68
- #define cexit2 69
- #define change_language3 70
- #define confirm_lang_change 71
- #define for_english_press 72
- #define for_turkish_press 73

4.2.1 Macro Definition Documentation

4.2.1.1 add_articles

```
#define add_articles 27
```

4.2.1.2 add_goods

```
#define add_goods 8
```

4.2.1.3 add_goods2

```
#define add_goods2 63
```

4.2.1.4 back_to_main_menu

```
#define back_to_main_menu 6
```

4.2.1.5 back_to_main_menu2

```
#define back_to_main_menu2 61
```

4.2.1.6 by_code

```
#define by_code 3
```

4.2.1.7 by_code2

```
#define by_code2 58
```

4.2.1.8 by_quantity

```
#define by_quantity 5
```

4.2.1.9 by_quantity2

```
#define by_quantity2 60
```

4.2.1.10 by_rate

```
#define by_rate 4
```

4.2.1.11 by_rate2

```
#define by_rate2 59
```

4.2.1.12 calculate_bill

```
#define calculate_bill 7
```

4.2.1.13 calculate_bill2

```
#define calculate_bill2 62
```

4.2.1.14 cexit

```
#define cexit 14
```

4.2.1.15 cexit2

```
#define cexit2 69
```

4.2.1.16 change_language

```
#define change_language 13
```

4.2.1.17 change_language2

```
#define change_language2 68
```

4.2.1.18 change_language3

```
#define change_language3 70
```

4.2.1.19 code_already_exists

```
#define code_already_exists 29
```

4.2.1.20 code_s

```
#define code_s 33
```

4.2.1.21 confirm_lang_change

```
#define confirm_lang_change 71
```

4.2.1.22 customers_bill

```
#define customers_bill 21
```

4.2.1.23 delete_articles

```
#define delete_articles 56
```

4.2.1.24 delete_goods

```
#define delete_goods 12
```

4.2.1.25 delete_goods2

```
#define delete_goods2 67
```

4.2.1.26 departmental_store

```
#define departmental_store 20
```

4.2.1.27 display_all

```
#define display_all 10
```

4.2.1.28 display_all2

```
#define display_all2 65
```

4.2.1.29 do_you_want_to_edit_this_code_yn

```
#define do_you_want_to_edit_this_code_yn 36
```

4.2.1.30 edit_goods

```
#define edit_goods 9
```

4.2.1.31 edit_goods2

```
#define edit_goods2 64
```

4.2.1.32 edit_records

```
#define edit_records 31
```

4.2.1.33 enter_again

```
#define enter_again 30
```

4.2.1.34 enter_end_to_finish_input

```
#define enter_end_to_finish_input 15
```

4.2.1.35 enter_item_code

```
#define enter_item_code 16
```

4.2.1.36 enter_lower_range

```
#define enter_lower_range 50
```

4.2.1.37 enter_name_of_the_item

```
#define enter_name_of_the_item 26
```

4.2.1.38 enter_new_code_of_the_article

```
#define enter_new_code_of_the_article 28
```

4.2.1.39 enter_new_name

```
#define enter_new_name 42
```

4.2.1.40 enter_new_quantity

```
#define enter_new_quantity 44
```

4.2.1.41 enter_new_rate

```
#define enter_new_rate 43
```

4.2.1.42 enter_new_record_yn

```
#define enter_new_record_yn 23
```

4.2.1.43 enter_quantity

```
#define enter_quantity 17
```

4.2.1.44 enter_quantity_of_the_item

```
#define enter_quantity_of_the_item 25
```

4.2.1.45 enter_rate_of_the_item

```
#define enter_rate_of_the_item 24
```

4.2.1.46 enter_upper_range

```
#define enter_upper_range 51
```

4.2.1.47 enter_your_choice_1234

```
#define enter_your_choice_1234 41
```

4.2.1.48 f_edit_quantity

```
#define f_edit_quantity 40
```

4.2.1.49 fashion_wear

```
#define fashion_wear 19
```

4.2.1.50 for_english_press

```
#define for_english_press 72
```

4.2.1.51 for_turkish_press

```
#define for_turkish_press 73
```

4.2.1.52 item_deleted

```
#define item_deleted 57
```

4.2.1.53 item_does_not_exist

```
#define item_does_not_exist 46
```

4.2.1.54 item_edited

```
#define item_edited 45
```

4.2.1.55 main_menu

```
#define main_menu 1
```

4.2.1.56 name_s

```
#define name_s 32
```

4.2.1.57 no_articles_found

```
#define no_articles_found 49
```

4.2.1.58 no_item_found

```
#define no_item_found 53
```

4.2.1.59 no_items_found

```
#define no_items_found 52
```

4.2.1.60 o_edit_name

```
#define o_edit_name 37
```

4.2.1.61 press_any_key_to_see_more

```
#define press_any_key_to_see_more 48
```

4.2.1.62 quantity_d

```
#define quantity_d 35
```

4.2.1.63 rate_g

```
#define rate_g 34
```

4.2.1.64 records

```
#define records 54
```

4.2.1.65 search

```
#define search 11
```

4.2.1.66 search2

```
#define search2 66
```

4.2.1.67 search_menu

```
#define search_menu 2
```

4.2.1.68 sn_itemname_itemcode_rate_quantity

```
#define sn_itemname_itemcode_rate_quantity 55
```

4.2.1.69 sn_itemname_quantity_rate_total

```
#define sn_itemname_quantity_rate_total 22
```

4.2.1.70 t_edit_code

```
#define t_edit_code 38
```

4.2.1.71 t_edit_rate

```
#define t_edit_rate 39
```

4.2.1.72 total_amount_nrs

```
#define total_amount_nrs 18
```

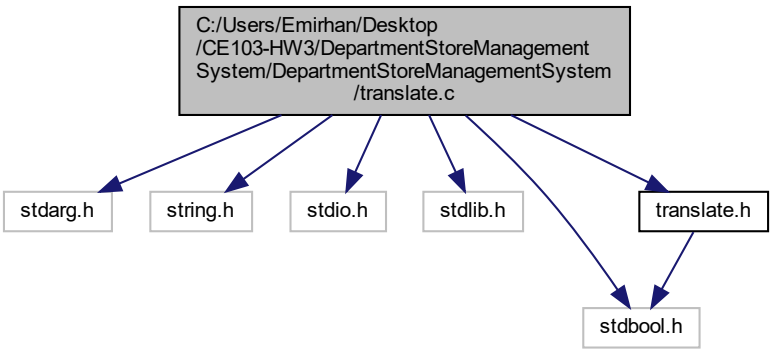
4.2.1.73 try_again

```
#define try_again 47
```

4.3 C:/Users/Emirhan/Desktop/CE103-HW3/DepartmentStore↩ ManagementSystem/DepartmentStoreManagement↩ System/translate.c File Reference

```
#include <stdarg.h>
#include <string.h>
#include <stdio.h>
#include <stdlib.h>
#include <stdbool.h>
#include "translate.h"
```

Include dependency graph for translate.c:



Macros

- #define _CRT_SECURE_NO_WARNINGS

Functions

- int getId (char *line)
- char * getIdString (char *line)
- void setTranslateLang (char *str, bool save)
- void fixFile (FILE *fptr, bool close)
- void getTranslateLang (char *lang)
- void printTranslateLang (int id)

Variables

- int app_language = APP_LANG_TR

4.3.1 Macro Definition Documentation

4.3.1.1 _CRT_SECURE_NO_WARNINGS

```
#define _CRT_SECURE_NO_WARNINGS
```

4.3.2 Function Documentation

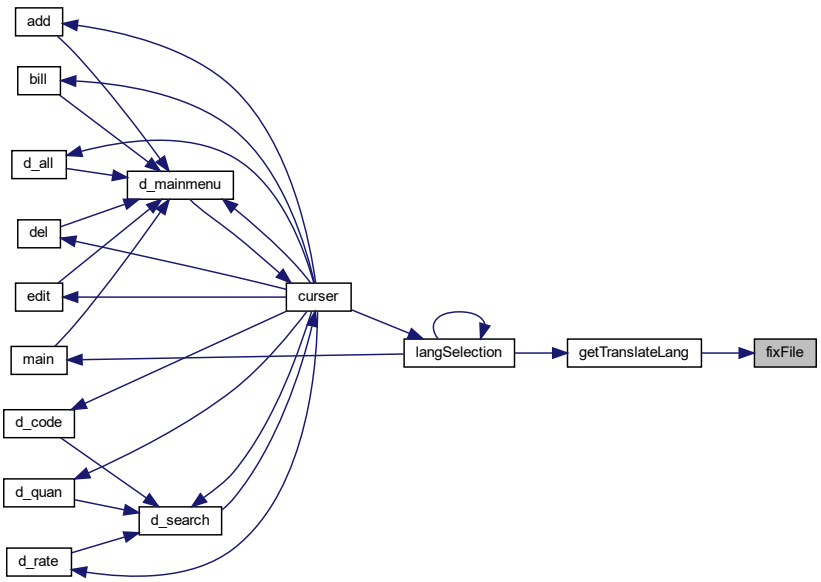
4.3.2.1 fixFile()

```
void fixFile (
            FILE * fptr,
            bool close )
```

References ENGLISH_L, and LANG_CONF_FILE.

Referenced by getTranslateLang().

Here is the caller graph for this function:

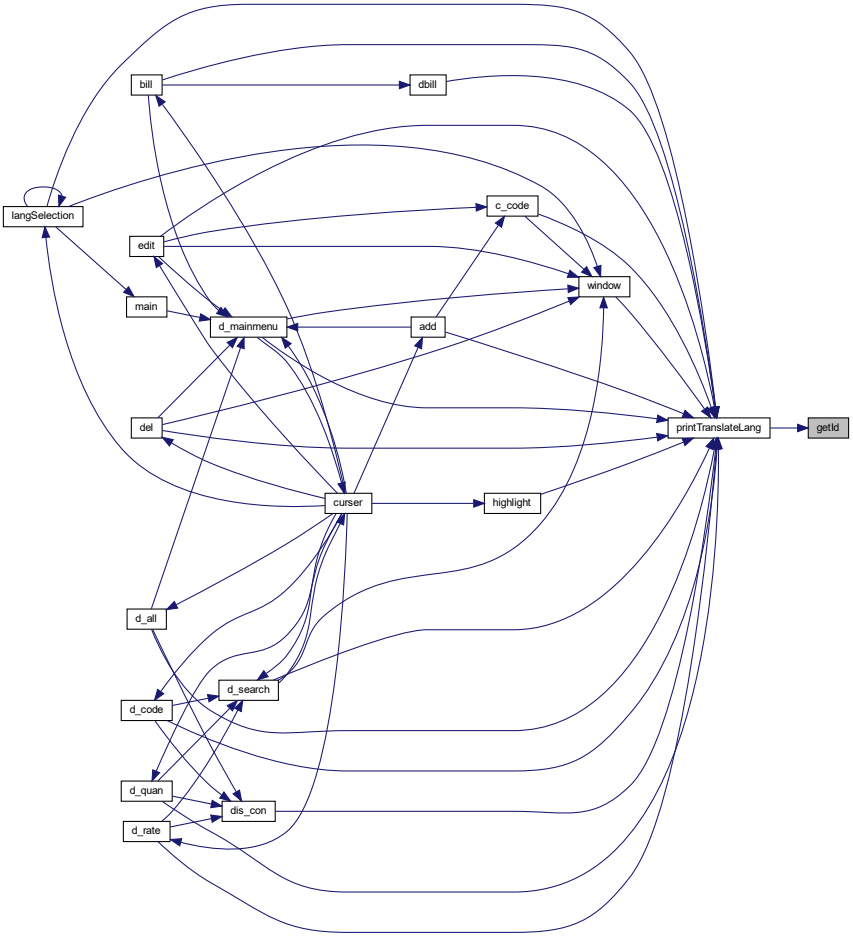


4.3.2.2 getId()

```
int getId (
            char * line )
```

Referenced by printTranslateLang().

Here is the caller graph for this function:

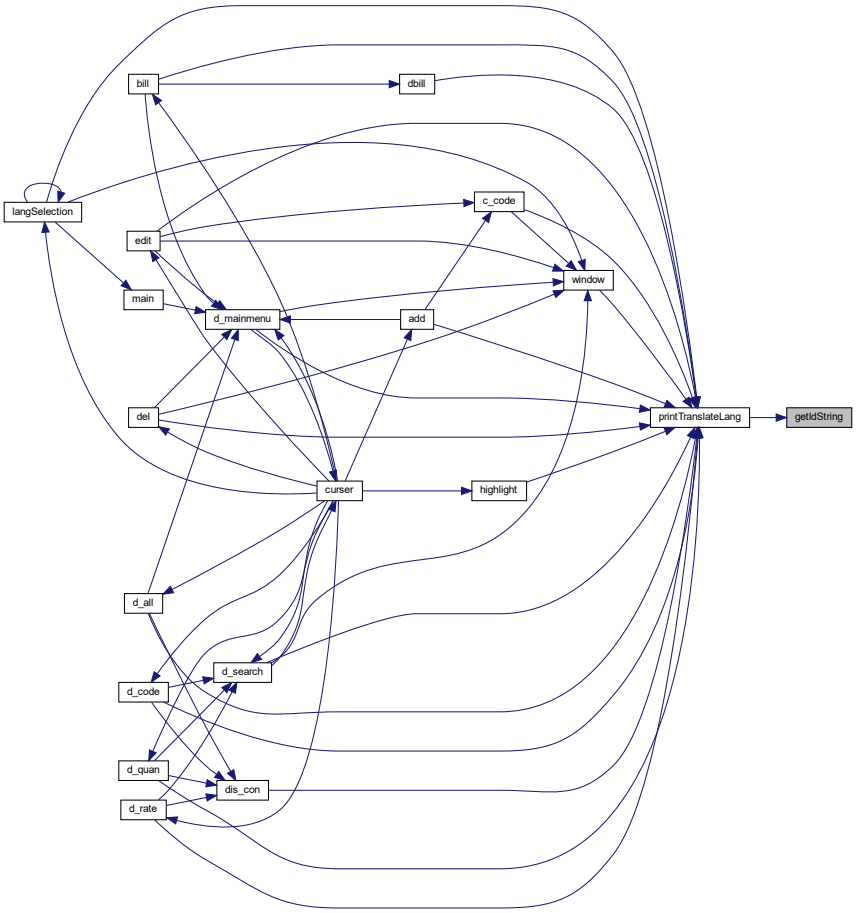


4.3.2.3 getIdString()

```
char * getIdString (
            char * line )
```

Referenced by printTranslateLang().

Here is the caller graph for this function:



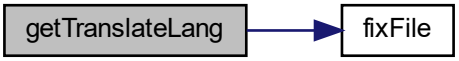
4.3.2.4 getTranslateLang()

```
void getTranslateLang (
            char * lang )
```

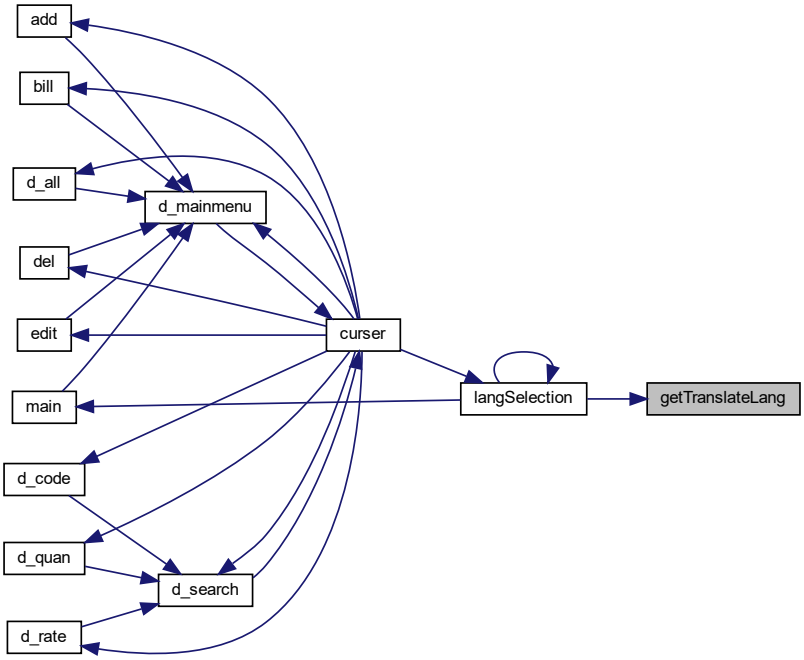
References ENGLISH_L, fixFile(), and LANG_CONF_FILE.

Referenced by langSelection().

Here is the call graph for this function:



Here is the caller graph for this function:



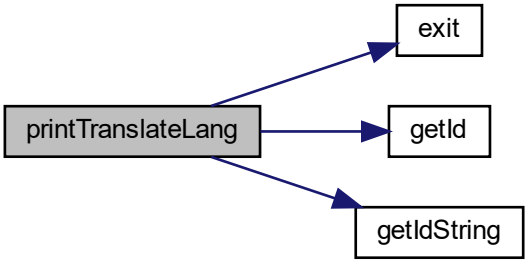
4.3.2.5 printTranslateLang()

```
void printTranslateLang (
            int id )
```

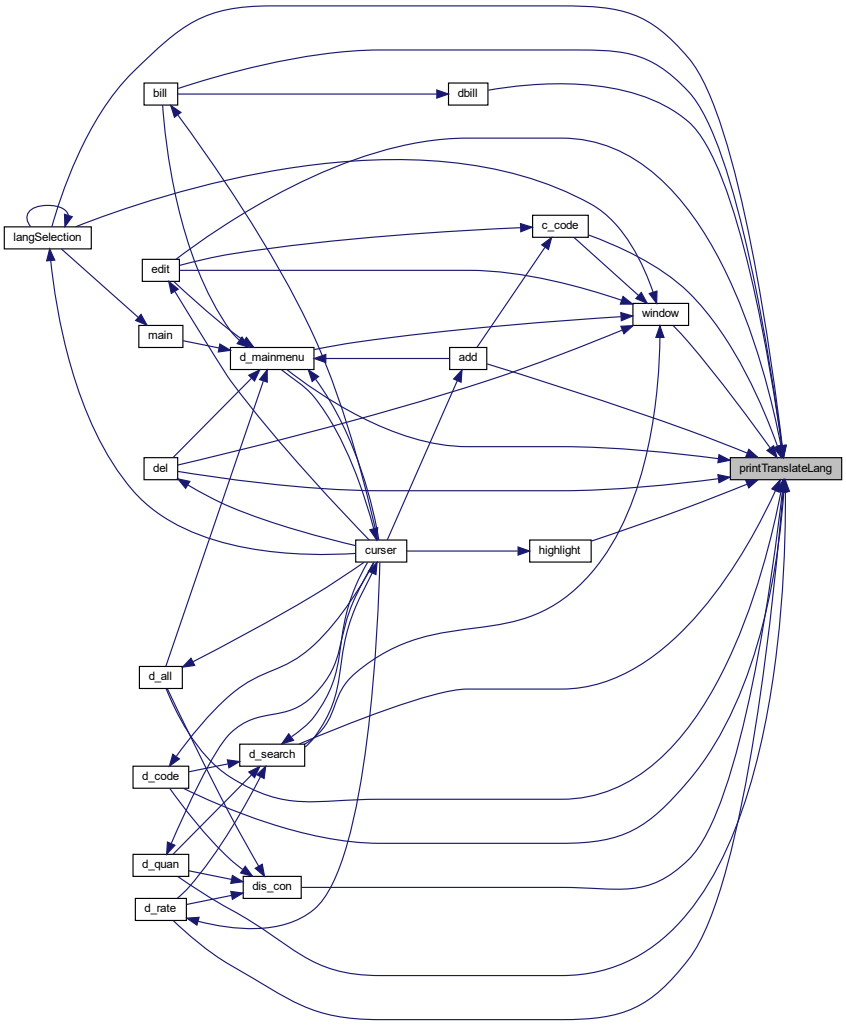
References APP_LANG_EN, APP_LANG_TR, app_language, EN_LANG_FILE, exit(), getId(), getIdString(), and TR_LANG_FILE.

Referenced by add(), bill(), c_code(), d_all(), d_code(), d_mainmenu(), d_quan(), d_rate(), d_search(), dbill(), del(), dis_con(), edit(), highlight(), langSelection(), and window().

Here is the call graph for this function:



Here is the caller graph for this function:



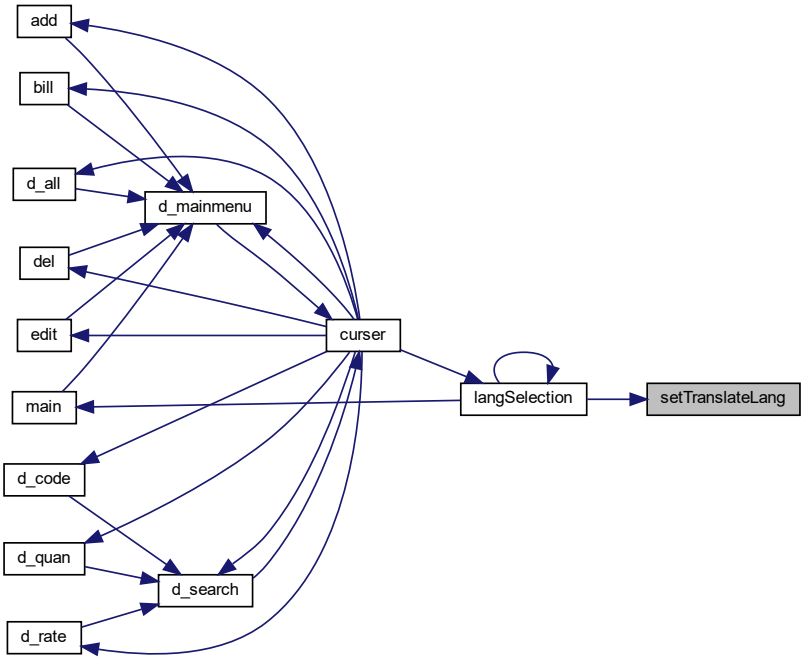
4.3.2.6 setTranslateLang()

```
void setTranslateLang (
            char * str,
            bool save )
```

References APP_LANG_EN, APP_LANG_TR, app_language, ENGLISH_L, LANG_CONF_FILE, and TURKISH_L.

Referenced by langSelection().

Here is the caller graph for this function:



4.3.3 Variable Documentation

4.3.3.1 app_language

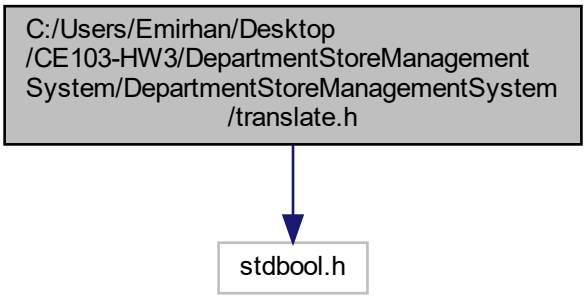
```
int app_language = APP_LANG_TR
```

Referenced by printTranslateLang(), and setTranslateLang().

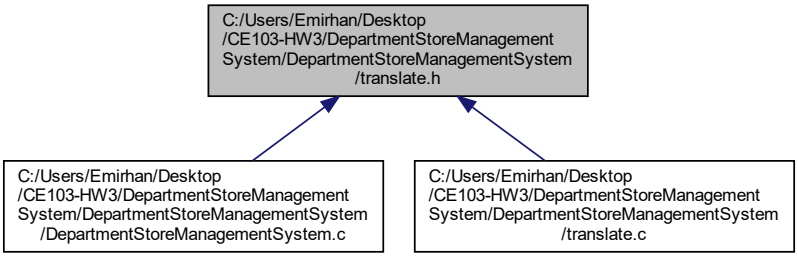
4.4 C:/Users/Emirhan/Desktop/CE103-HW3/DepartmentStore↩ ManagementSystem/DepartmentStoreManagement↩ System/translate.h File Reference

```
#include <stdbool.h>
```

Include dependency graph for translate.h:



This graph shows which files directly or indirectly include this file:



Macros

- #define ENGLISH_L "en"
- #define TURKISH_L "tr"
- #define EN_LANG_FILE "en.dat"
- #define TR_LANG_FILE "tr.dat"
- #define LANG_CONF_FILE "lang.conf"
- #define APP_LANG_EN 0
- #define APP_LANG_TR 1

Functions

- void setTranslateLang (char ∗str, bool save)
- void getTranslateLang (char ∗lang)
- void printTranslateLang (int id)

Variables

- int app_language

4.4.1 Macro Definition Documentation

4.4.1.1 APP_LANG_EN

```
#define APP_LANG_EN 0
```

4.4.1.2 APP_LANG_TR

```
#define APP_LANG_TR 1
```

4.4.1.3 EN_LANG_FILE

```
#define EN_LANG_FILE "en.dat"
```

4.4.1.4 ENGLISH_L

```
#define ENGLISH_L "en"
```

4.4.1.5 LANG_CONF_FILE

```
#define LANG_CONF_FILE "lang.conf"
```

4.4.1.6 TR_LANG_FILE

```
#define TR_LANG_FILE "tr.dat"
```

4.4.1.7 TURKISH_L

```
#define TURKISH_L "tr"
```

4.4.2 Function Documentation

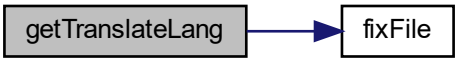
4.4.2.1 getTranslateLang()

```
void getTranslateLang (
            char * lang )
```

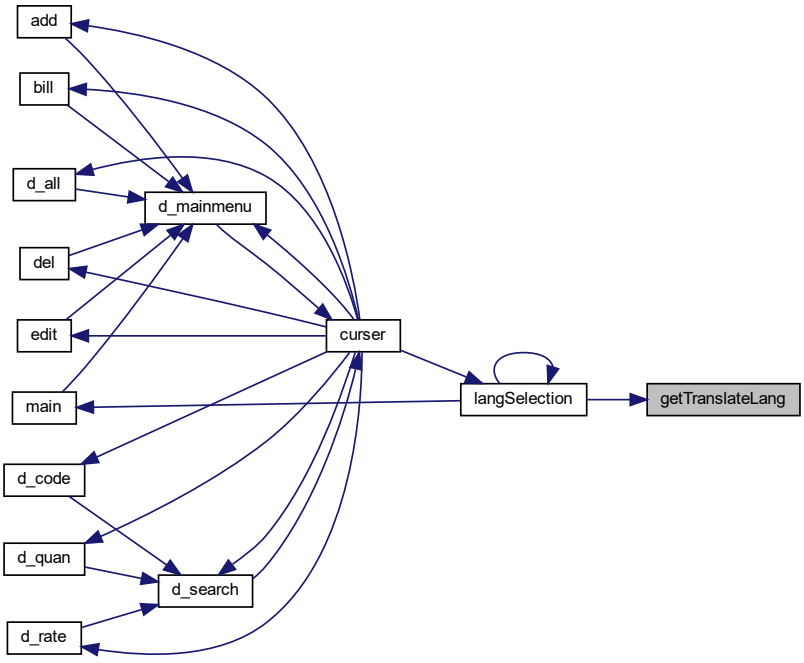
References ENGLISH_L, fixFile(), and LANG_CONF_FILE.

Referenced by langSelection().

Here is the call graph for this function:



Here is the caller graph for this function:



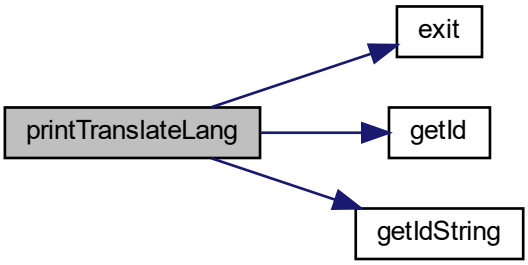
4.4.2.2 printTranslateLang()

```
void printTranslateLang (
            int id )
```

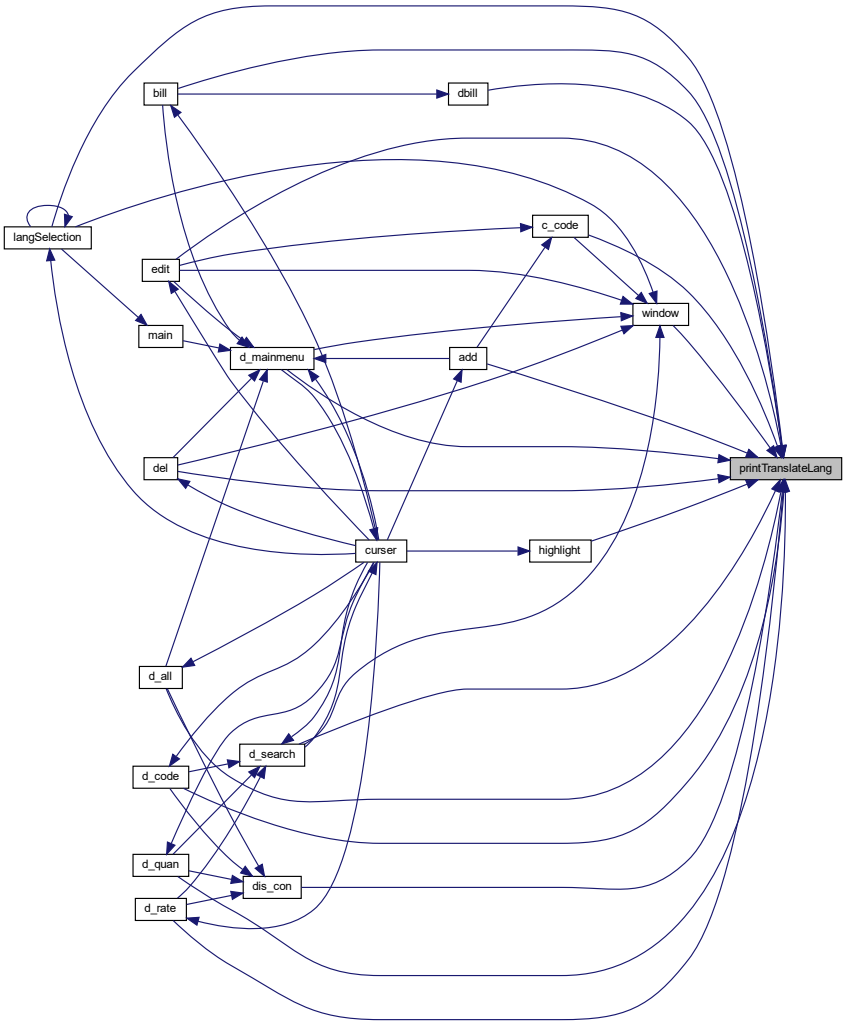
References APP_LANG_EN, APP_LANG_TR, app_language, EN_LANG_FILE, exit(), getId(), getIdString(), and TR_LANG_FILE.

Referenced by add(), bill(), c_code(), d_all(), d_code(), d_mainmenu(), d_quan(), d_rate(), d_search(), dbill(), del(), dis_con(), edit(), highlight(), langSelection(), and window().

Here is the call graph for this function:



Here is the caller graph for this function:



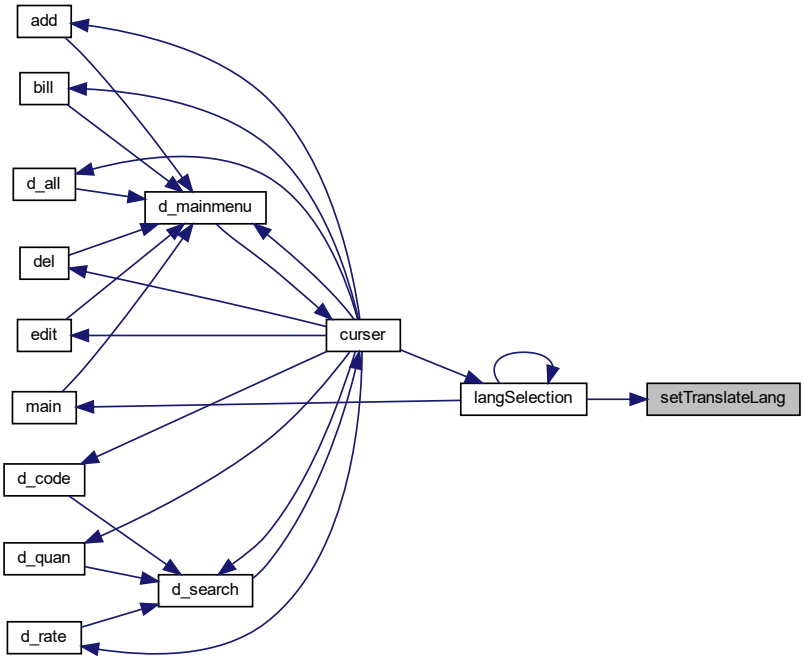
4.4.2.3 setTranslateLang()

```
void setTranslateLang (
            char * str,
            bool save )
```

References APP_LANG_EN, APP_LANG_TR, app_language, ENGLISH_L, LANG_CONF_FILE, and TURKISH_L.

Referenced by langSelection().

Here is the caller graph for this function:



4.4.3 Variable Documentation

4.4.3.1 app_language

```
int app_language  [extern]
```

Referenced by printTranslateLang(), and setTranslateLang().

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