**ГЛАВА 14**

**1.**

struct дескриптор {

char itable;

int num[20];

char \* togs;

};

**2.**

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S p

**3.**

struct month

{

char name[15];

char abbr[4];

int days;

int number;

};

**4.**

struct month all\_months[12] =

{

{“January”, “Jan”, 31, 1};

{“February”, “Feb”, 28, 2};

{“March”, “Mar”, 31, 3};

{“April”, “Apr”, 30, 4};

{“May”, “May”, 31, 5};

{“June”, “Jun”, 30, 6};

{“July”, “Jul”, 31, 7};

{“August”, “Aug”, 31, 8};

{“September”, “Sep”, 30, 9};

{“October”, “Oct”, 31, 10};

{“November”, “Nov”, 30, 11};

{“December”, “Dec”, 31, 12};

};

**5.**

extern struct all\_months[];

int count\_days(int num\_month)

{

int days = 0;

for (int index = 0; index < num\_month; index++)

{

days += all\_months[index].days;

}

return days;

}

**6.**

a)

#include <stdio.h>

#include <string.h>

typedef struct lens

{

float foclen;

float fstop;

char brand[30];

} LENS;

int main(void)

{

LENS array[10];

array[2].foclen = 500.0;

array[2].fstop = 2.0;

strcpy(array[2].brand, "Remarkatar");

printf("%.1f %.1f %s\n", array[2].foclen, array[2].fstop, array[2].brand);

return 0;

}

б)

#include <stdio.h>

typedef struct lens

{

float foclen;

float fstop;

char brand[30];

} LENS;

int main(void)

{

LENS array[10] =

{

[2] = {500.0, 2.0, "Remarkatar"}

};

printf("%.1f %.1f %s\n", array[2].foclen, array[2].fstop, array[2].brand);

return 0;

}

**7.**

a)

6

Arcturan

cturan

в)

#include <stdio.h>

#include "starfolk.h"

void show\_bem(struct bem \* pb)

{

printf("%s %s - это %d-конечный %s\n", pb->title.first, pb->title.last, pb->limbs, pb->type);

}

**8.**

a)

willie.born

б)

pt->born

в)

scanf("%d", willie.born);

г)

scanf("%d", pt->born);

д)

scanf("%s", willie.name.lname);

е)

scanf("s", pt->name.lname);

ж)

willie.name.fname[2]

**9.**

struct car

{

char model[30];

int power;

int eco\_rank;

int wheel\_base;

int year;

};

**10.**

а)

#include <stdio.h>

struct gas

{

float distance;

float gals;

float mpg;

};

struct gas find\_mpg(struct gas str);

int main(void)

{

struct gas smpl = {200.0, 6.6};

struct gas result = find\_mpg(smpl);

printf("При дистанции %.1f миль и расходу топлива %.1f галлонов\n", smpl.distance, smpl.gals);

printf("MpG равен %.1f.\n", result.mpg);

return 0;

}

struct gas find\_mpg(struct gas str)

{

str.mpg = str.distance / str.gals;

return str;

}

б)

#include <stdio.h>

struct gas

{

float distance;

float gals;

float mpg;

};

void find\_mpg(struct gas \* pstr);

int main(void)

{

struct gas smpl = {200.0, 6.6};

find\_mpg(&smpl);

printf("При дистанции %.1f миль и расходу топлива %.1f галлонов\n", smpl.distance, smpl.gals);

printf("MpG равен %.1f.\n", smpl.mpg);

return 0;

}

void find\_mpg(struct gas \* pstr)

{

str->mpg = str->distance / str->gals;

}

**11.**

enum choises = {no, yes, maybe};

**12.**

char \* (\*pf) (char \*, char);

**13.**

double first(double firsr, double second);

double second(double first, double second);

double third(double first, double second);

double fourth(double first, double second);

double (\*pf)(double, double)[4]; // не правильно

double (\*pf)[4](double, double) = {first, second, third, fourth}; // правильный вариант

pf[1] = {10.0, 2.5}; // не правильно

pf[1](10.0, 2.5); //правильно, первая форма записи

(\*pf[1])(10.0, 2.5); // вторая форма