## Отчёт №2

# Лабораторные работы 5-8 вариант №15

```
#include<stdio.h>
int main() {
    int n = 9;
    int arr[9] = {99, 88, 77, 66, 55, 44, 33, 22, 11};
    for(int i = 0; i < n; i++) {</pre>
       printf("arr[%d] = %d\n", i, arr[i]);
    }
    printf("----");
    int r1 = 2, c1 = 2, r2 = 2, c2 = 2, i, j, p, m, q;
    int matr1[2][2] = {2, 5, 2, 2};
    int matr2[2][2] = \{1, 2, 0, 1\};
    int matr3[2][2] = {};
    printf("\nElements from the first matrix:");
    for(i = 0; i < r1; i++) {</pre>
       printf("\n");
       for(j = 0; j < c1; j++) {
          printf("%d ", matr1[i][j]);
       }
    }
    printf("\nElements from the second matrix:");
    for(i = 0; i < r2; i++) {</pre>
       printf("\n");
        for(j = 0; j < c2; j++) {
           printf("%d ", matr2[i][j]);
        }
    }
    int sum = 0;
    printf("\nThe product of our matrices is:\n");
    for(i = 0; i < 2; i++){</pre>
       for(j = 0; j < 2; j++){
            for (p = 0; p < 2; p++) {
                sum = sum + matr1[i][p] * matr2[p][j];
```

```
matr3[i][j] = sum;
    sum = 0;
}

for(i = 0; i < 2; i++) {
    for(j = 0; j < 2; j++) {
        printf("%d ", matr3[i][j]);
    }
    printf("\n");
}

return 0;
}</pre>
```

```
#include<stdlib.h>
#include<stdio.h>
int main(){
    const int n = 4;
    char *names[n];
    names[0] = 'W';
    names[1] = '0';
     names[2] = 'R';
    names[3] = 'K';
    for(int i = 0; i < n; i++) {</pre>
        printf("%c ", names[i]);
    }
     printf("\n----\n");
    int n2 = 4;
     char *arrw;
     arrw = malloc(n2 * sizeof(int));
    arrw[0] = 'W';
     arrw[1] = 'O';
     arrw[2] = 'R';
     arrw[3] = 'K';
     for(int i = 0; i < n; i++) {</pre>
        printf("%c ", arrw[i]);
     free(arrw);
     return 0;
```

```
#include<stdlib.h>
#include<stdio.h>
#include<math.h>
struct circle {
    float r;
    int no2;
};
int main(){
    enum music {classical, pop, rock, rap, newage, electronic};
     enum music x;
    x = rock;
    printf("The number of the rock music in our array is d \in n, x);
     struct triangle {
        int x1, y1, x2, y2, x3, y3;
     };
     struct triangle A = {1, 2, 3, 4, 5, 6};
    float AB = sqrt(pow((A.x2 - A.x1), 2) + pow((A.y2 - A.y1), 2));
    float BC = sqrt(pow((A.x3 - A.x2), 2) + pow((A.y3 - A.y2), 2));
    float AC = sqrt(pow((A.x3 - A.x1), 2) + pow((A.y3 - A.y1), 2));
    float P = AB + AC + BC;
    printf("\nThe perimeter of our triangle is %f", P);
    union status{
     struct{
        unsigned Active: 1;
        unsigned SDcard: 1;
        unsigned CompactFlashcard: 1;
        unsigned MemoryStickcard: 1;
    }bits;
    unsigned char data;
    };
    union status MyStatus;
    printf("\n\nEnter a hex number:");
    scanf("%x", &(MyStatus.data));
    printf("\nCard-reader status - ");
    printf("\nActive: %s", (MyStatus.bits.Active) ? "On" : "Off");
    printf("\nSD card: %s", (MyStatus.bits.SDcard) ? "On" : "Off");
    printf("\nCompact flash card: %s", (MyStatus.bits.CompactFlashcard) ?
 "On" : "Off");
    printf("\nMemory stick card: %s", (MyStatus.bits.MemoryStickcard) ? "On"
 : "Off");
    printf("\n\n");
    return 0;
```

• }

```
#include<stdlib.h>
#include<stdio.h>
#include<string.h>
int main() {
    char first[100];
    char second[100];
    int n:
    printf("Enter the first string -> ");
    gets(first);
    printf("Enter the second string -> ");
    gets (second);
    //2
    printf("Input the number of first character -> ");
    scanf("%d", &n);
    char *c = strncat(first, second, n);
    printf("The concatenation of our two strings is -> %s", c);
    //5
    char *c2 = strcpy(first, second);
    printf("\nThe copy of one into the other is -> %s", c2);
    //8
    printf("\nEnter a character: ");
    char sara;
    scanf(" %c", &sara);
    char *ss = strchr(first, sara);
    printf("\nFinding the symbol in our string -> %p\n", ss);
    //11
    printf("Enter new strings: ");
    char one [100];
    char two[100];
    printf("\n1\n");
    scanf("\n %s", one);
    printf("\n2\n");
    scanf("\n %s", two);
    /*char *s1 = strpbrk(one, two);
    printf("\n The pointer to the first symbol which is similar to one of
the symbols 2nd string -> %p", s1);*/
    int s2 = strspn(one, two);
    printf("\nThe length of the initial segment of one which consists
entirely of characters in two -> %d, and the rest is -> ", s2);
    /*int *s3 = strcmp(one, two);
    printf("\nCompares the string pointed to, by strl to the string pointed
to by str2. -> %d", s3);*/
    //char *s4 = strpbrk(one, two);
    printf("\nEnter new strings: ");
    char one1[100];
    char two2[100];
    printf("\n1 -> ");
    scanf("\n %s", one1);
    printf("\n2 \rightarrow");
```

```
scanf("\n %s", two2);
char *s5 = strtok(one1, two2);
//printf("something %s", *s5);
int j = 100;
char three[100];
for(int i=0; i < 100; i++){
    if(one1[i]!=*s5){
        three[i] = one1[i];
    } else{
        three[i] = ' ';
    }
    printf("%s", one1);</pre>
```