```
#include <stdlib.h>
#include <locale.h>
#define STRING LENGTH 80
int readLine(char str[], int numberOfCharacters) {
  int currentChar = 0, currentNumber = 0;
  while ((currentChar = getchar()) != '\n' && currentChar != EOF) {
    if (currentNumber < numberOfCharacters) {</pre>
      str[currentNumber++] = currentChar;
  }
  str[currentNumber] = '\0';
  return currentNumber;
int main(void) {
  setlocale(LC ALL, "RU");
  char string[STRING LENGTH + 1] = {'\0'};
 printf("Введите текст:\n");
  readLine(string, STRING LENGTH);
 puts("");
 puts(string);
  return EXIT SUCCESS;
```

```
int countWhitespaces(const char str[]) {
  int count = 0;
  for (int i = 0; str[i] != '\setminus 0'; i++) {
    if (str[i] == ' ') {
      count++;
  return count;
int countWhitespaces(const char *str) {
  int count = 0;
  for (; *str != '\0'; str++) {
    if (*str == ' ') {
      count++;
  return count;
```

```
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>
#define SIZE 10
int main(void) {
  setlocale(LC ALL, "RU");
  char firstString[SIZE], secondString[SIZE];
  firstString = "abc";
  secondString = firstString;
 printf("%d\n", firstString == secondString);
  return EXIT SUCCESS;
```

```
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>
#include <string.h>
#define SIZE 10
int main(void) {
  setlocale(LC ALL, "RU");
  char firstString[SIZE], secondString[SIZE];
  // char *strcpy( char *dest, const char *src );
  strcpy(secondString, "abcd");
  strcpy(firstString, secondString);
  strcpy(firstString, strcpy(secondString, "abcd"));
  //char *strncpy( char *dest, const char *src, size t count );
  strncpy(firstString, secondString, sizeof(firstString) - 1);
  firstString[sizeof(firstString) - 1] = '\0';
  return EXIT SUCCESS;
```

```
#include <stdlib.h>
#include <locale.h>
#include <string.h>
#define SIZE 10
int main(void) {
  setlocale(LC ALL, "RU");
  char firstString[SIZE];
  // size t strlen( const char *str );
  int lenght = strlen("abc def");
  printf("%d\n", lenght);
  lenght = strlen("");
  printf("%d\n", lenght);
  strcpy(firstString, "abc");
  lenght = strlen(firstString);
 printf("%d\n", lenght);
  return EXIT SUCCESS;
```

```
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>
#include <string.h>
#define SIZE 10
int main(void) {
  setlocale(LC ALL, "RU");
  char firstString[SIZE], secondString[SIZE];
  strcpy(firstString, "abc");
  // char *strcat( char *dest, const char *src );
  strcat(firstString, "def");
  //strcpy(secondString, "def");
  //strcat(firstString, secondString);
  //strncat(firstString, secondString,
            sizeof(firstString) - strlen(firstString) - 1);
  //firstString[sizeof(firstString) - 1] = '\0';
 puts(firstString);
  return EXIT SUCCESS;
```

```
#include <stdlib.h>
#include <locale.h>
#include <string.h>
#define SIZE 10
int main(void) {
  setlocale(LC ALL, "RU");
  char firstString[SIZE], secondString[SIZE];
  strcpy(firstString, "abc");
  strcpy(secondString, "def");
  // int strcmp( const char *lhs, const char *rhs );
 printf("%d\n", strcmp(firstString, secondString));
  return EXIT SUCCESS;
```

```
#include <stdlib.h>
#include <locale.h>
#include <string.h>
#define SIZE 10
size t GetStringLength(const char *s) {
  size_t n;
  for (n = 0; *s != ' \setminus 0'; s++) {
    n++;
  }
  return n;
int main(void) {
  setlocale(LC ALL, "RU");
  char firstString[SIZE], secondString[SIZE];
  strcpy(firstString, "abc");
  strcpy(secondString, "def");
 printf("%d\n", GetStringLength(firstString));
  return EXIT SUCCESS;
  while (*s++) {
    n++;
```

```
#include <locale.h>
#include <string.h>
#define SIZE 10
char* ConcatinateStrings(char *first, const char *second) {
  char *p = first;
  while (*p != '\0') {
   p++;
 while (*second != '\0') {
    *p = *second;
   p++;
    second++;
  *p = ' 0';
  return first;
int main(void) {
  setlocale(LC ALL, "RU");
  char firstString[SIZE], secondString[SIZE];
  strcpy(firstString, "abc");
  strcpy(secondString, "def");
 printf("%s\n", ConcatinateStrings(firstString, secondString));
  return EXIT SUCCESS;
 while (*p) {
   p++;
  }
 while (*p++ = *second++)
```

#include <stdio.h>
#include <stdlib.h>

```
#include <stdlib.h>
#include <locale.h>
#define SIZE 10
int main(void) {
  setlocale(LC ALL, "RU");
  char planets[][SIZE] = { "Меркурий", "Венера",
                           "Земля", "Марс",
                            "Юпитер", "Сатурн",
                            "Уран", "Нептун" };
  return EXIT SUCCESS;
}
  char *planets[] = { "Меркурий", "Венера",
                      "Земля", "Марс",
                      "Юпитер", "Сатурн",
                      "Уран", "Нептун" };
  int size = sizeof(planets) / sizeof(char*);
  for (int i = 0; i < size; i++) {
    if (planets[i][0] == 'M') {
      printf("%s пишется с буквы M\n", planets[i]);
```

```
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>
int main(int argc, char *argv[]) {
  setlocale(LC ALL, "RU");
  for (int i = 1; i < argc; i++) {
   printf("%s\n", argv[i]);
  return EXIT SUCCESS;
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>
int main(int argc, char *argv[]) {
  setlocale(LC ALL, "RU");
  for (char **p = &argv[1]; *p != NULL; p++) {
   printf("%s\n", *p);
  return EXIT SUCCESS;
```

```
#include <stdlib.h>
#include <locale.h>
#include <string.h>
int main(int argc, char *argv[]) {
  setlocale(LC ALL, "RU");
  char *planets[] = { "Меркурий", "Венера",
                       "Земля", "Марс",
                       "Юпитер", "Сатурн",
                       "Уран", "Нептун" };
  int numberOfPlanets = sizeof(planets) / sizeof(char*);
  int i = 0, j = 0;
  for (i = 1; i < argc; i++) {
    for (j = 0; j < numberOfPlanets; j++) {</pre>
      if (strcmp(argv[i], planets[j]) == 0) {
        printf("%s это планета № %d\n", arqv[i], j + 1);
        break;
    if (j == numberOfPlanets) {
      printf("%s это не планета\n", arqv[i]);
  return EXIT SUCCESS;
```

Некоторые функции библиотеки **ctype.h**

```
int isdigit( int ch );     int toupper( int ch );
int isalpha( int ch );
                          int isspace( int ch );
int isalnum( int ch );    int iscntrl( int ch );
int isxdigit( int ch );    int ispunct( int ch );
int islower( int ch );    int isprint( int ch );
int isupper( int ch );     int isgraph( int ch );
int tolower( int ch );
```

Некоторые функции библиотеки stdlib.h

Некоторые функции поиска из библиотеки string.h