Izvadak iz ASCII tablice

Znak	Opis	Dekadska vrijednost
LF	novi red (new line)	10
Space	praznina (space, blank)	32
0	znamenka nula	48
A	veliko slovo A	65
a	malo slovo a	97

Prikaz realnog broja

IEEE 754 - 32 bita	IEEE 754 - 64 bita
K = BE + 127	K = BE + 1023
denormaliziran: K = 0	denormaliziran: K = 0
± ∞ ili NaN: K = 255	± ∞ili NaN: K = 2047
najveći normaliziran	najveći normaliziran
$\approx 3.4 \times 10^{38}$	$\approx 1.8 \times 10^{308}$
najmanji pozitivan normaliz.	najmanji pozitivan normaliz.
≈ 1.17 × 10 <sup>-38</sup>	$\approx 2.2 \times 10^{-308}$
$ \rho  \le 2^{-24} \approx 6 \times 10^{-8}$	$ \rho  \le 2^{-53} \approx 1.1 \times 10^{-16}$

## Prefiksi za cjelobrojne konstante

0 : oktalno 0x, 0X : heksadekadski

## Sufiksi za cjelobrojne konstante

L, 1 : long
LL, 11 : long long
U, u : unsigned

#### Sufiksi za realne konstante

F, f : float L, l : long double

### Standardna biblioteka

# stdlib.h size t

```
EXIT FAILURE, EXIT_SUCCESS
  RAND MAX, NULL
                                          |\mathbf{x}|
  int abs(int x);
  long labs(long x);
  long long llabs(long long x);
  void srand(unsigned int seed);
  int rand(void);
  void exit(int status);
  void *malloc(size t size);
math.h
  double fabs(double x);
                                          |\mathbf{x}|
  float fabsf(float x);
  long double fabsl(long double x);
  double pow(double x, double y);
                                          \mathbf{x}^{\mathbf{y}}
  double sqrt(double x);
                                           \sqrt{x}
  double exp(double x);
                                          e^{x}
  double log(double x);
                                          In x
  double log10 (double x);
                                          log<sub>10</sub> x
  double sin(double x);
  double cos(double x);
  double tan(double x);
```

## Prioritet i asocijativnost operatora

Prioritet i asocijativnost operatora			
	Operator	Asocijativnost operatora	
←Viši prioritet	poziv funkcije () []> postfiks ++	$L\toD$	
	! ~ sizeof adresa & indirekcija * prefiks ++ unarni + -	$D\toL$	
	(cast)	$D \rightarrow L$	
et	aritmetički * / %	$L \rightarrow D$	
Niži prioritet→	binarni + -	$L \rightarrow D$	
	<< >>	$L\toD$	
	< <= > >=	$L\toD$	
	== !=	$L\toD$	
	bitovni &	$L\toD$	
orio	^	$L\toD$	
rite	1	$L\toD$	
Ţ	&&	$L\toD$	
	11	$L \rightarrow D$	
	? :	$D\toL$	
	= *= /= %= += -= &= ^=  = <<= >>=	$D\toL$	
	operator ,	$L \rightarrow D$	

Zauzeće memorije (qcc. x86 64)

(900, X00_0-1)			
Tip	Broj bajtova		
char	1		
short	2		
int	4		
long	4		
long long	8		
float	4		
double	8		
long double	12		

-E
-std=c11
-Wall
-pedantic-errors
-S
-c

-save-temps

--verbose

gcc opcije

```
void *realloc(void *ptr, size_t size);
void free(void *ptr);

double asin(double x);
double acos(double x);
double atan(double x);
double atan2(double y, double x);
double cosh(double x);
double sinh(double x);
double tanh(double x);
double floor(double x);
double floor(double x);
```

```
Ključne riječi
  size t, time t
  NULL
                                                                                         auto
                                                                                                short
                                                                                         break
                                                                                                signed
  time t time(time t *timer);
                                                                                                sizeof
                                                                                        case
string.h
                                                                                         char
                                                                                                static
                                                                                        const
                                                                                                struct
  size t
                                                                                         continue
                                                                                                switch
  NULL
                                                                                         default
                                                                                                typedef
  char *strcpy(char *s1, const char *s2);
                                                                                        do
                                                                                                union
  char *strncpy(char *s1, const char *s2, size t n);
                                                                                         double
                                                                                                unsigned
  char *strcat(char *s1, const char *s2);
                                                                                                void
                                                                                        else
  char *strncat(char *s1, const char *s2, size t n);
                                                                                         enum
                                                                                                volatile
  size t *strlen(const char *s);
                                                                                         extern
                                                                                                while
                                                                                        float
                                                                                                _Alignas
  int *strcmp(const char *s1, const char *s2);
                                                               s1 < s2 \Rightarrow strcmp < 0
                                                                                                _Alignof
                                                                                        for
  int *strncmp(const char *s1, const char *s2, size t n);
                                                                                         goto
                                                                                                Atomic
  char *strchr(const char *s, int c);
                                                               NULL ako nema
                                                                                                 Bool
                                                                                        if
                                                                                         inline
                                                                                                _Complex
  char *strrchr(const char *s, int c);
                                                               NULL ako nema
                                                                                                 Generic
                                                                                        int
  char *strstr(const char *s1, const char *s2);
                                                               NULL ako nema
                                                                                         long
                                                                                                 _Imaginary
  char *strpbrk(const char *s1, const char *s2);
                                                               NULL ako nema
                                                                                        register
                                                                                                 Noreturn
                                                                                                _Static_assert
                                                                                         restrict
ctype.h
                                                                                        return
                                                                                                 _Thread_local
  int isdigit(int c);
                                int iscntrl(int c);
  int isdigit(int c);
                                int isspace(int c);
                                int islower(int c);
  int isxdigit(int c);
  int isalpha(int c);
                                int isupper (int c);
  int isalnum(int c);
                                int toupper (int c);
  int isprint(int c);
                                int tolower(int c);
stdio.h
  stdin, stdout, stderr
  size t, FILE
  NULL, EOF, SEEK CUR, SEEK END, SEEK SET
  int scanf(const char *format, ...);
  int sscanf(const char *buffer, const char *format, ...);
  int fscanf(FILE *stream, const char *format, ...);
     opći oblik konverzijske specifikacije: % [*] [širina] [modifikator] specifikator
     specifikatori za scanf: c, d, u, o, x, f, s, p, [znakovi], [^znakovi]
     modifikatori za d, u, o, x: h - short
                                                        11 - long long
                                          1 - long
                          : 1 - double
     modifikatori za f
                                          L - long double
  int printf(const char *format, ...);
  int sprintf(char *buffer, const char *format, ...);
  int fprintf(FILE *stream, const char *format, ...);
     opći oblik konverzijske specifikacije: % [znak] [širina] [.preciznost] [modifikator] specifikator
     specifikatori za printf: c, d, u, o, x, X, f, e, E, g, G, s, p
     modifikatori za d, u, o, x: h - short
                                                        11 - long long
                          : 1 - double
     modifikatori za f
                                          L - long double
  int getc(FILE *stream);
                                                                                     greška, eof → EOF
                                                        int getchar(void);
                                                                                     greška → EOF
  int ungetc(int c, FILE *stream);
  int putc(int c, FILE *stream);
                                                        int putchar(int c);
                                                                                    greška → EOF
  char *fgets(char *s, int n, FILE *stream);
                                                                                    greška, eof → NULL
  int fputs(const char *s, FILE *stream);
                                                        int puts (const char *s); greška → EOF
  FILE *fopen(const char *filename, const char *mode);
                                                                                     greška → NULL
     mode: "w[b]", "a[b]", "r[b]", "w+[b]", "a+[b]", "r+[b]"
  int fflush(FILE *stream);
                                                                                     greška → EOF
  int fclose(FILE *stream);
                                                                                    greška → EOF
  size t fread(void *ptr, size t size, size t n, FILE *stream);
                                                                                    greška → <n
  size t fwrite(const void *ptr, size t size, size t n, FILE *stream);
                                                                                    greška → <n
  int fseek(FILE *stream, long offset, int whence);
                                                                                    greška → int≠0
     whence: SEEK SET
                           u odnosu na početak datoteke
              SEEK CUR
                            u odnosu na trenutačnu poziciju
                            u odnosu na kraj datoteke
              SEEK END
  long ftell(FILE *stream);
                                                                                     greška → -1L
```