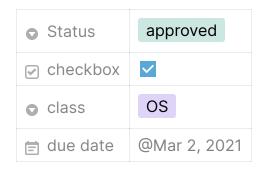


OS Lab 20



Task

Измените предыдущую программу так, чтобы в шаблоне могли встречаться символы /. При этом программа должна распечатывать все файлы, путевые имена которых соответствуют шаблону. Так, шаблону / соответствуют все файлы во всех подкаталогах текущего каталога.

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```
GLOB(3C)
                         Standard C Library Functions
                                                                       GLOB(3C)
NAME
      glob, globfree - generate path names matching a pattern
SYNOPSIS
      #include <glob.h>
       int glob(const char *restrict pattern, int flags,
            int(*errfunc)(const char *epath, int eerrno),
            glob_t *restrict pqlob);
      void globfree(glob_t *pglob);
DESCRIPTION
      The glob() function is a path name generator.
      The globfree() function frees any memory allocated by glob() associated
      with pglob.
  pattern Argument
       The argument <u>pattern</u> is a pointer to a path name pattern to be
       expanded. The glob() function matches all accessible path names
      against this pattern and develops a list of all path names that match.
      In order to have access to a path name, glob() requires search
      permission on every component of a path except the last, and read
      permission on each directory of any filename component of <u>pattern</u> that
      contains any of the following special characters:
                           [
  <u>pglob</u> Argument
      The structure type glob_t is defined in the header <glob.h> and
      includes at least the following members:
                                /* Total count of paths matched by */
        size_t gl_pathc;
                                /* pattern */
                                /* List of matched path names */
        char
                  **gl_pathv;
                  gl_offs;
                                /* # of slots reserved in gl_pathv */
        size_t
                  gl_matchc;
        int
                                /* Count of paths matching pattern. */
        int
                  gl_flags;
                                /* Copy of flags parameter to glob. */
      The glob() function stores the number of matched path names into
      pglob->gl_pathc and a pointer to a list of pointers to path names into
      pglob->gl_pathv. The path names are in sort order as defined by the
       current setting of the LC_COLLATE category. The first pointer after
       the last path name is a NULL pointer. If the pattern does not match any
      path names, the returned number of matched paths is set to 0, and the
       contents of pglob->gl_pathv are implementation-dependent.
      It is the caller's responsibility to create the structure pointed to by
      pglob. The glob() function allocates other space as needed, including
      the memory pointed to by gl_pathv. The globfree() function frees any
       space associated with <u>pglob</u> from a previous call to <u>glob()</u>.
```

GLOB NOCHECK

If <u>pattern</u> does not match any path name, then <u>glob()</u> returns a list consisting of only <u>pattern</u>, and the number of matched path names is 1.

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RETURN	VALUES On successful completion, glob() returns zero. In addition the fields of pglob contain the values described below:	
	gl_pathc	Contains the total number of matched pathnames so far. This includes other matches from previous invocations of glob() if GLOB_APPEND was specified.
	gl_matchc	Contains the number of matched pathnames in the current invocation of <pre>glob()</pre> .
	gl_flags	Contains a copy of the flags parameter with the bit GLOB_MAGCHAR set if pattern contained any of the special characters `*', `?', or `[', cleared if not.
	gl_pathv	Contains a pointer to a null-terminated list of matched pathnames. However, if gl_pathc is zero, the contents of gl_pathv are undefined.
	gl_statv	If the GLOB_KEEPSTAT flag was set, gl_statv contains a pointer to a null-terminated list of matched stat(2) objects corresponding to the paths in gl_pathc.
the second	If <pre>glob()</pre> terminates due to an error, it sets <pre>errno</pre> and returns one of the following non-zero constants. defined in <pre><pre>constants</pre></pre>	
	GLOB_ABORTED	The scan was stopped because GLOB_ERR was set or (*errfunc) returned non-zero.
	GLOB_NOMATCH	The pattern does not match any existing path name, and GLOB_NOCHECK was not set in flags.
	GLOB_NOSPACE	An attempt to allocate memory failed.
	GLOB_NOSYS	The requested function is not supported by this version of glob().

Notes

GLOB !!!

Reading list