

File created: 1-Feb-2022 17:00:03 {DSK}<Users>kaplan>Local>medley3.5>my-medley>lispusers>LOOKUPINFI
LES.;2

changes to: (FNS MakeLookupWindow ShowLookUpString)
previous date: 23-Feb-89 13:20:33 {DSK}<Users>kaplan>Local>medley3.5>my-medley>lispusers>LOOKUPINFILES.;1
Read Table: INTERLISP
Package: INTERLISP
Format: XCCS

;;
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(RPAQQ LOOKUPINFILESCOMS
(

;;; Fast lookup in files

```
(LOCALVARS . T)
(SPECVARS PROMPTWINDOW)
(FNS AddFileToList DeleteFileFromList Lookup-CacheFile Lookup-CacheFiles Lookup-EditFile
  Lookup-KillProcess Lookup-MakeIconWindow Lookup-RecacheFile Lookup-RightbuttonFn Lookup-CacheFile
  Lookup-RightbuttonFn Lookup-StartProcess Lookup-TitleMenuFn Lookup-WhenClosedFn Lookup-WhenOpenedFn
  LookupAttachedMenu LookupString MakeLookupWindow ShowLookUpString)
(FUNCTIONS Lookup-Notify busy-protect)
(VARS *LookupPrompt* DEFAULT-LOOKUP-BITMAP DEFAULT-LOOKUP-MASK (LOOKUP-DEFAULT-EDITREGION (CREATEREGION
  300 300 400
  200))

  (LOOKUP-DEFAULT-ICONPOSITION (CREATEPOSITION 300 300)))
(GLOBALVARS *LookupPrompt* DEFAULT-LOOKUP-BITMAP DEFAULT-LOOKUP-MASK LOOKUP-DEFAULT-EDITREGION
  LOOKUP-DEFAULT-ICONPOSITION)
(DECLARE%: DONTCOPY (RECORDS Lookup-CacheRecord)))
```

;;; Fast lookup in files

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(LOCALVARS . T)
)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(SPECVARS PROMPTWINDOW)
)

(DEFINEQ

(AddFileToList

```
[LAMBDA (WINDOW) ; Edited 26-Jan-89 10:24 by dgb:
  (LET* (entry fullname (OLD.TTYPROCESS (TTY.PROCESS (THIS.PROCESS)))
        (OLDDISPLAYSTREAM (TTYDISPLAYSTREAM WINDOW)))
    (busy-protect WINDOW "adding file to list"
      (LET ((fileName (TTYIN "New File: " NIL NIL ' (STRING NORAISE)
                          NIL NIL NIL NIL)))
        (TTY.PROCESS T)
        (Lookup-Notify WINDOW T "Trying to add " fileName T)
        (COND
          ((SETQ fullname (FULLNAME fileName))
           [WINDOWPROP WINDOW 'FileList (CONS fileName (WINDOWPROP WINDOW 'FileList)
           [WINDOWPROP WINDOW 'CacheForFiles (CONS (SETQ entry
              (create Lookup-CacheRecord
                fileName _ fullname
                originalFileName _ fileName))
              (WINDOWPROP WINDOW 'CacheForFiles]
          (Lookup-CacheFile entry WINDOW)
          (Lookup-Notify WINDOW "Caching done" T)
          (fileName (Lookup-Notify WINDOW T fileName " not found." T]))
```

(DeleteFileFromList

```
[LAMBDA (window) ; Edited 26-Jan-89 21:37 by dgb:
  (LET* [(ITEMS (WINDOWPROP window 'CacheForFiles)
        (CL:IF ITEMS
          [busy-protect window "deleting file from list"
            (LET* [(CHOSEN (MENU (create MENU
              ITEMS _ (for ITEM in ITEMS
                collect (LIST (fetch originalFileName of ITEM)
                  (KWOTE ITEM)
                (CL:WHEN CHOSEN
                  (WINDOWPROP window 'CacheForFiles (REMOVE CHOSEN ITEMS))
                  [WINDOWPROP window 'FileList (REMOVE (fetch originalFileName of CHOSEN)
                    (WINDOWPROP window 'FileList))])
```

(Lookup-Notify window "No files"))]]

(Lookup-CacheFile

```
[LAMBDA (entry msgStream window) ; Edited 23-Feb-89 13:04 by dgb:
  (LET* (localFile strm textStream (file (fetch fileName of entry)))
    (WINDOWPROP window 'lastFileIndex NIL)
    (WINDOWPROP window 'lastEntryIndex NIL)
    (CL:WHEN file
      (SETQ localFile (PACKFILENAME.STRING 'HOST 'NODIRCORE 'VERSION NIL 'BODY file))
      (SETQ file (PACKFILENAME 'VERSION NIL 'BODY file))
      (Lookup-Notify msgStream "Looking for: " (FILENAMEFIELD file 'NAME)
        T)
      (COND
        ((FINDFILE file)
          (Lookup-Notify msgStream "Caching: " (FILENAMEFIELD file 'NAME)
            T)
          (create Lookup-CacheRecord smashing entry fileName _ file openStream _
            (SETQ strm (OPENSTREAM (COPYFILE file localFile)
              'INPUT))
            textStream _ (SETQ textStream (OPENTEXTSTREAM strm))
            textLength _ (fetch TEXTLEN of (TEXTOBJ textStream))
            originalFileName _ (fetch originalFileName of entry)))
          (T (SETQ localFile NIL)
            (Lookup-Notify msgStream file " not found" T)
            (create Lookup-CacheRecord smashing entry fileName _ file))))))]
```

(Lookup-CacheFiles

```
[LAMBDA (WINDOW) ; Edited 26-Jan-89 21:09 by dgb:
```

;;; Cache the files in core

```
(busy-protect WINDOW "caching files."
  (LET* [(CACHE NIL)
    (OLDCACHE (WINDOWPROP WINDOW 'CacheForFiles))
    (FILELIST (CL:IF OLDCACHE
      (for ITEM in OLDCACHE collect (fetch originalFileName of ITEM))
      (WINDOWPROP WINDOW 'FileList)))]
    (WINDOWPROP WINDOW 'FileList FILELIST)
    (WINDOWPROP WINDOW 'CacheForFiles NIL)
    (Lookup-Notify WINDOW T "Caching files in core..." T)
    [for file in FILELIST
      do (LET ((FULLNAME (FULLNAME file)))
        (if FULLNAME
          then (CL:PUSH (create Lookup-CacheRecord
            fileName _ FULLNAME
            originalFileName _ file)
              CACHE)
          else (Lookup-Notify WINDOW file " not found" T])
        (for entry in CACHE do (Lookup-CacheFile entry WINDOW WINDOW))
        (Lookup-Notify WINDOW T "Caching done" T)
        (WINDOWPROP WINDOW 'CacheForFiles (REVERSE CACHE)))]
```

(Lookup-EditFile

```
[LAMBDA (window) ; Edited 26-Jan-89 15:53 by dgb:
```

```
(LET* [[file (COND
  [(WINDOWPROP window 'lastFileIndex)
    (CAR (NTH (WINDOWPROP window 'FileList)
      (WINDOWPROP window 'lastFileIndex))]
  (T (LET [(ITEMS (WINDOWPROP window 'CacheForFiles)]
    (CL:IF ITEMS
      [MENU (create MENU
        ITEMS _ (for ITEM in ITEMS
          collect (LIST (fetch originalFileName of ITEM)
            (KWOTE (fetch fileName of ITEM))
          (PROGN (Lookup-Notify window "No files")
            NIL))]
        w (AND file (TEDIT (MKATOM file)
          (n (WINDOWPROP window 'lastEntryIndex)
            (AND file n (TEDIT.NORMALIZECARET w (TEDIT.SETSEL w n 0)))
          w)]
```

(Lookup-KillProcess

```
[LAMBDA (WINDOW) ; Edited 23-Nov-88 13:03 by dgb:
```

;;; Kill the lookup process associated with the window

```
(LET* [(PROMPT (GETPROMPTWINDOW WINDOW))
  (PROC (WINDOWPROP PROMPT 'PROCESS)]
  (WINDOWPROP PROMPT 'PROCESS NIL)
  (WINDOWPROP WINDOW 'lookupProcess NIL)
  (COND
    ((PROCESSP PROC)
      (AND (TTY.PROCESSP PROC)
```

```
(TTY.PROCESS T)
(DEL.PROCESS PROC)
(PROCESSPROP PROC 'PROCWINDOW NIL])
```

(Lookup-MakelconWindow

```
[LAMBDA (window iconBM iconMask iconPosition icontitle) ; Edited 26-Jan-89 15:33 by dgb:
  (OR iconBM (SETQ iconBM DEFAULT-LOOKUP-BITMAP)
    (SETQ iconMask DEFAULT-LOOKUP-MASK))
  (LET [(ICONWINDOW (COND
    (icontitle (TITLEDICONW (create TITLEDICON
      ICON _ iconBM
      MASK _ iconMask
      TITLEREG _ (CREATEREGION 2 2 (- (BITMAPWIDTH iconBM)
        4)
        26))
      icontitle DEFAULTICONFONT (OR iconPosition
        LOOKUP-DEFAULT-ICONPOSITION)
      T))
    (T (ICONW iconBM iconMask (OR iconPosition LOOKUP-DEFAULT-ICONPOSITION)
      T])
```

::: Make icon for this window

```
(WINDOWPROP window 'ICON ICONWINDOW)
(WINDOWPROP ICONWINDOW 'CLOSEFN (FUNCTION (LAMBDA (W)
  (LET [(MAIN (WINDOWPROP W 'ICONFOR)
    (EXPANDW W])
```

(Lookup-RecacheFile

```
[LAMBDA (WINDOW) ; Edited 26-Jan-89 21:01 by dgb:
  (busy-protect WINDOW "recaching a file." (LET [(index (WINDOWPROP WINDOW 'lastFileIndex)
    (CLEARW (GETPROMPTWINDOW WINDOW))
    (COND
      (index (Lookup-Notify WINDOW "Recaching" T)
        (Lookup-CacheFile (CAR (NTH (WINDOWPROP WINDOW
          'CacheForFiles)
          index))
          WINDOW WINDOW)
        (Lookup-Notify WINDOW "Caching done" T)
        (CL:WHEN (OPENWP WINDOW)
          (ShowLookUpString (WINDOWPROP WINDOW
            'searchString)
            WINDOW index 0)))
      (T (Lookup-Notify WINDOW T "No file selected" T])
```

(Lookup-RightbuttonFn

```
[LAMBDA (W s) ; Edited 26-Jan-89 21:24 by dgb:
  (SELECTQ [MENU (create MENU
    ITEMS _ ' (Move Shape Close Redisplay Shrink]
    (Move (MOVEW W))
    (Shape (SHAPEW W))
    (Close (CL:IF (PROGN (CLEARW W)
      (MOUSECONFIRM "Are you sure you want
        to close this Lookup window?
        " NIL W T))
      (PROGN (Lookup-KillProcess W)
        (CLOSEW W))
      (REDISPLAYW W NIL T)))
    (Redisplay (REDISPLAYW W NIL T))
    (Shrink (SHRINKW W))
    NIL])
```

(Lookup-CacheFile

```
[LAMBDA (entry msgStream window) ; Edited 23-Feb-89 13:04 by dgb:
  (LET* (localFile strm textStream (file (fetch fileName of entry)))
    (WINDOWPROP window 'lastFileIndex NIL)
    (WINDOWPROP window 'lastEntryIndex NIL)
    (CL:WHEN file
      (SETQ localFile (PACKFILENAME.STRING 'HOST 'NODIRCORE 'VERSION NIL 'BODY file))
      (SETQ file (PACKFILENAME 'VERSION NIL 'BODY file))
      (Lookup-Notify msgStream "Looking for: " (FILENAMEFIELD file 'NAME)
        T)
      (COND
        ((FINDFILE file)
          (Lookup-Notify msgStream "Caching: " (FILENAMEFIELD file 'NAME)
            T)
          (create Lookup-CacheRecord smashing entry fileName _ file openStream _
            (SETQ strm (OPENSTREAM (COPYFILE file localFile)
              'INPUT))
            textStream _ (SETQ textStream (OPENTEXTSTREAM strm))
            textLength _ (fetch TEXTLEN of (TEXTOBJ textStream))
            originalFileName _ (fetch originalFileName of entry)))
        (T (SETQ localFile NIL)
```

(Lookup-Notify msgStream file " not found" T)
(create Lookup-CacheRecord smashing entry fileName _ file)))]])

(Lookup-RightbuttonFn

; Edited 26-Jan-89 21:24 by dgb:

[LAMBDA (W s)
(SELECTQ [MENU (create MENU
ITEMS _ '(Move Shape Close Redisplay Shrink]
(Move (MOVEW W))
(Shape (SHAPEW W))
(Close (CL:IF (PROGN (CLEARW W)
(MOUSECONFIRM "Are you sure you want
to close this Lookup window?
" NIL W T))
(PROGN (Lookup-KillProcess W)
(CLOSEW W))
(REDISPLAYW W NIL T)))
(Redisplay (REDISPLAYW W NIL T))
(Shrink (SHRINKW W))
NIL])

(Lookup-StartProcess

; Edited 23-Nov-88 13:26 by dgb:

[LAMBDA (WINDOW)
(AND (OPENWP WINDOW)
[NOT (PROCESSP (WINDOWPROP (GETPROMPTWINDOW WINDOW)
'PROCESS]
(COND
((WINDOWPROP WINDOW 'BUSYACTION)
(CLEARW WINDOW)
(PRINTOUT WINDOW T "Busy with " (WINDOWPROP WINDOW 'BUSYACTION)
T)
;; don't start process
NIL)
(T T))
(ADD.PROCESS `(LookupString ,WINDOW)
'NAME
(WINDOWPROP WINDOW 'ProcessName)
'WINDOW
(GETPROMPTWINDOW WINDOW])

(Lookup-TitleMenuFn

; Edited 25-Jan-89 09:57 by dgb:

[LAMBDA (window)
(SELECTQ [MENU (if (WINDOWPROP window 'lastFileIndex)
then [LOADTIMECONSTANT (create MENU
ITEMS _ '(["Edit file named in window title"
'Edit "Edit file named in window title"
(SUBITEMS ("Select file to edit" 'EditFile]
("Add new file" 'AddFile "Add specified file to
list")
("Delete file from list" 'DeleteFile "Delete file
from those used for lookup")
("Recache file named in window title"
'RecacheFile "Recache file named in window
title" (SUBITEMS ("Recache all files"
'Recache]
else (LOADTIMECONSTANT (create MENU
ITEMS _ '(("Select file to edit" 'EditFile "Make choice from
current files")
("Add new file" 'AddFile "Add specified file to
list")
("Delete file from list" 'DeleteFile "Delete file
from those used for lookup")
("Recache all files" 'Recache]
(AddFile (AddFileToList window))
>DeleteFile (DeleteFileFromList window))
(Recache (WINDOWPROP window 'TITLE ""))
(CLEARW window)
(Lookup-CacheFiles window T))
(RecacheFile (Lookup-RecacheFile window))
>Edit (Lookup-EditFile window))
>EditFile (WINDOWPROP window 'lastFileIndex NIL)
(WINDOWPROP window 'TITLE ""))
(Lookup-EditFile window))
NIL])

(Lookup-WhenClosedFn

; Edited 25-Jan-89 13:34 by dgb:

[LAMBDA (window)
;;; Kill the process associated with the window .
(Lookup-KillProcess window)
(WINDOWPROP window 'CacheForFiles NIL)
(WINDOWPROP window 'OPENFN NIL)

window])

(Lookup-WhenOpenedFn

[LAMBDA (WINDOW)

; Edited 26-Jan-89 15:56 by dgb:

;;; The OPENFN for the lookup window

(WINDOWPROP WINDOW 'RIGHTBUTTONFN 'Lookup-RightbuttonFn)
(CLEARW (GETPROMPTWINDOW WINDOW))
(Lookup-StartProcess WINDOW])

(LookupAttachedMenu

[LAMBDA (ITEM menu button)

; Edited 23-Nov-88 13:05 by dgb:

(LET* [(WINDOW (MAINWINDOW (WFROMMENU menu)))
(oldName (WINDOWPROP WINDOW 'searchString])
(SELECTQ (CADR ITEM)
(NEXT (COND
(oldName (Lookup-KillProcess WINDOW)
(PRINTOUT (GETPROMPTWINDOW WINDOW)
oldName T)
(ShowLookUpString (WINDOWPROP WINDOW 'searchString)
WINDOW
(OR (NUMBERP (WINDOWPROP WINDOW 'lastFileIndex))
1)
(ADD1 (OR (NUMBERP (WINDOWPROP WINDOW 'lastEntryIndex))
-1)))
(Lookup-StartProcess WINDOW))))
(SHRINK (SHRINKW WINDOW))
NIL])

(LookupString

[LAMBDA (mainWindow)

; Edited 26-Jan-89 19:44 by dgb:

;;; The main program for the LookupInFiles Program

(OPENW mainWindow)
(LET ((w (GETPROMPTWINDOW mainWindow)))
(CLEARW w)
(TTYDISPLAYSTREAM w)
(TTY.PROCESS (THIS.PROCESS))
(bind lookup-string do (WINDOWPROP mainWindow 'RIGHTBUTTONFN 'Lookup-RightbuttonFn)
(SETQ lookup-string (RESETVAR TTYINREADMACROS '(19 T CONS))
(TTYIN *LookupPrompt* NIL NIL '(STRING NORAISE)
NIL NIL NIL NIL)))
(COND
((LISTP lookup-string)
(SHRINKW mainWindow)
(PROCESS.RETURN))
[(NULL lookup-string)
(LET [(oldName (WINDOWPROP mainWindow 'searchString])
(if oldName
then (PRINTOUT w *LookupPrompt* oldName T)
(ShowLookUpString oldName mainWindow (WINDOWPROP mainWindow 'lastFileIndex)
(ADD1 (OR (WINDOWPROP mainWindow 'lastEntryIndex)
-1])
(T (ShowLookUpString lookup-string mainWindow)))]
until (NOT (OPENWP w]))

(MakeLookupWindow

[LAMBDA (fileList processName editRegion iconBM iconMask iconPosition iconTitle)

; Edited 1-Feb-2022 16:59 by rmk

; Edited 25-Jan-89 13:37 by dgb:

;; Compute defaults

(LET [(window (CREATEMENUEDWINDOW (create MENU
CENTERFLG _ T
MENUFONT _ '(HELVETICA 12 BOLD)
ITEMS _ '(("Shrink" SHRINK "Shrink window to an icon")
("Next Occurrence" NEXT "Find next occurrence of
string."))
WHENSELECTEDFN _ (FUNCTION LookupAttachedMenu))
""
'TOP
(OR editRegion LOOKUP-DEFAULT-EDITREGION]

;;; Create Menued window with prompt

(GETPROMPTWINDOW window 2 '(HELVETICA 12 BOLD))

;;; Create icon

(Lookup-MakeIconWindow window iconBM iconMask iconPosition iconTitle)

;;; Opening starts process, and checks if caching needed

```
(WINDOWADDPROP window 'OPENFN (FUNCTION Lookup-WhenOpenedFn))
(WINDOWADDPROP window 'EXPANDFN (FUNCTION Lookup-WhenOpenedFn))
```

;;; Shrinking and closing kills the process.

```
[WINDOWPROP window 'CLOSEFN (CONS (FUNCTION Lookup-KillProcess)
(WINDOWPROP window 'CLOSEFN)
(WINDOWPROP window 'RIGHTBUTTONFN 'Lookup-RightbuttonFn)
[WINDOWPROP window 'SHRINKFN (CONS (FUNCTION Lookup-KillProcess)
(WINDOWPROP window 'SHRINKFN)
```

;;; Fix title menu for this TEDIT window

```
(OPENTEXTSTREAM NIL window NIL NIL '(READONLY T TEDIT.TITLEMENUFN Lookup-TitleMenuFn))
(WINDOWPROP window 'TEDIT.TITLEMENUFN 'Lookup-TitleMenuFn)
```

;;; Cache FileList in Window

```
(WINDOWPROP window 'FileList (MKLIST fileList))
```

;;; Store name for PSW

```
(WINDOWPROP window 'ProcessName (OR processName 'Lookup))
```

;;; This should be default for attached window

```
(for w1 in (ALLATTACHEDWINDOWS window) do (WINDOWPROP w1 'PASSTOMAINCOMS T)
(WINDOWPROP w1 'RIGHTBUTTONFN 'NIL))
[ADD.PROCESS `(Lookup-CacheFiles ,window)
(SHRINKW window)
window])
```

(ShowLookUpString

```
[LAMBDA (name-or-string window lst-index start-pos)
; Edited 1-Feb-2022 16:59 by rmk
; Edited 22-Nov-88 15:10 by dgb:
(OR lst-index (SETQ lst-index 1))
(OR start-pos (SETQ start-pos 0))
(WINDOWPROP window 'searchString name-or-string)
(for elt in (NTH (WINDOWPROP window 'CacheForFiles)
lst-index)
as file-index from lst-index bind pos openStream sel textStream when (SETQ openStream
(fetch openStream of elt))
do (if (NOT (OPENP openStream))
then (OPENSTREAM openStream 'INPUT)
(WINDOWPROP window 'lastFileIndex NIL))
(if (SETQ pos (FILEPOS name-or-string openStream start-pos (fetch textLength of elt)
NIL NIL UPPERCASEARRAY))
then (WINDOWPROP window 'lastEntryIndex pos)
(SETQ sel (TEDIT.SETSEL (SETQ textStream (fetch textStream of elt))
(ADD1 pos)
(NCHARS name-or-string)))
[if (EQP file-index (WINDOWPROP window 'lastFileIndex))
then (TEDIT.NORMALIZECARET textStream sel)
else (WINDOWPROP window 'TITLE (CONCAT "Looking in: " (fetch fileName of elt)))
(WINDOWPROP window 'lastFileIndex file-index)
(OPENTEXTSTREAM textStream window NIL NIL '(READONLY T])
(RETURN (PROG1 (TEDIT.SET.SEL.LOOKS sel 'PENDINGDEL)
(TEDIT.SHOWSEL textStream T sel)))
else (SETQ start-pos 0))
finally (WINDOWPROP window 'lastFileIndex NIL)
(WINDOWPROP window 'lastEntryIndex NIL)
(WINDOWPROP window 'TITLE "")
(TEDIT.SETSEL (OPENTEXTSTREAM (OPENSTREAMSTRING (CONCAT name-or-string " not found. "))
window NIL NIL '(READONLY T))
1
(NCHARS name-or-string)
'RIGHT T])
)
```

```
(DEFMACRO Lookup-Notify (WINDOW &REST BODY)
\ (PRINTOUT (OR (OPENWP ,WINDOW)
PROMPTWINDOW)
\, BODY))
```

```
(DEFMACRO busy-protect (WINDOW NEW-BUSY-ACTION body-form unwind-form)
\ (CL:UNLESS (WINDOWPROP ,WINDOW 'BUSYACTION)
(CL:UNWIND-PROTECT
(PROGN (WINDOWPROP ,WINDOW 'BUSYACTION ,NEW-BUSY-ACTION)
(AND (OPENWP ,WINDOW)
(CLEARW ,WINDOW))
```

```

      (Lookup-KillProcess ,WINDOW)
      ,body-form)
    ,unwind-form
    (WINDOWPROP ,WINDOW 'BUSYACTION NIL)
    (Lookup-StartProcess ,WINDOW)))

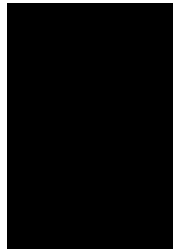
```

```
(RPAQQ *LookupPrompt* "Lookup String: ")
```

```
(RPAQQ DEFAULT-LOOKUP-BITMAP
```



```
(RPAQQ DEFAULT-LOOKUP-MASK
```



```
(RPAQ LOOKUP-DEFAULT-EDITREGION (CREATEREGION 300 300 400 200))
```

```
(RPAQ LOOKUP-DEFAULT-ICONPOSITION (CREATEPOSITION 300 300))
```

```
(DECLARE%: DOEVAL@COMPILE DONTCOPY
```

```
(GLOBALVARS *LookupPrompt* DEFAULT-LOOKUP-BITMAP DEFAULT-LOOKUP-MASK LOOKUP-DEFAULT-EDITREGION
  LOOKUP-DEFAULT-ICONPOSITION)
)
```

```
(DECLARE%: DONTCOPY
```

```
(DECLARE%: EVAL@COMPILE
```

```
(RECORD Lookup-CacheRecord (fileName openStream textStream textLength originalFileName))
)
```

```
(PUTPROPS LOOKUPINFILES COPYRIGHT ("Xerox Corporation" 1986 1988 1989))
```

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