```
#!/bin/bash
#=======================================================================
# SYNOPSIS
#   inverted_index – hashmap like data structure
#
# AUTHOR
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#
# DESCRIPTION
#   hashmap like data structure
#
# EXAMPLE
#   See below
#
# RETURN VALUE
#   Return 0 if successful
#   Return 1 otherwise.
#
# FUTURE ENHANCEMENTS
#   None
#
# BUGS
#    None
#======================================================================
#http://www.phrase1.html
<html>
talk the talk
</html>

#http://www.phrase1_1.html
<html>
in the red
</html>
#=========================================================
#
# online help
#
#=========================================================
help() {
   echo "
Description:
  Process a Linux service

Syntax:
  inverted_index -u <start_url> -l <number_of_levels>

Options:
   -u : start_url
   recursively search the string from webpage and links mentioned in webpage
   -l : number_of_levels
   how deep to search into

Examples:
   $ inverted_index -u http://www.phrase1.html -l 1
   talk http://www.phrase1.html
   the http://www.phrase1.html

   $ inverted_index -u http://www.phrase1.html -l 2
   talk http://www.phrase1.html
   the http://www.phrase1.html http://www.phrase1_1.html
   in http://www.phrase1_1.html
   red http://www.phrase1_1.html
"
   exit 0
}


#======================================================================
#   main program
#======================================================================
typeset start_url number_of_levels

if test $# -eq 0
then
   help
else
   start_url=
   number_of_levels=

   while [ "$#" -ne 0 ]
   do
      case "$1" in
         -u) shift; start_url="$1"; shift;;
         -l) shift; number_of_levels="$1"; shift;;

          *) echo "Error in $0: wrong option $1"; help; exit 1;;
      esac
   done
fi

###############################################
#
# Setup temporary file
#
###############################################
tmpname=${0##*/}
```

```
# if [ $(echo $tmpname | wc -c) -gt 8 ]
# then
#   typeset -L8 command=$tmpname
# else
#    command=$tmpname
# fi
# Keep the first 10 characters
command=`echo "$tmpname" | sed 's/^\(..........\).*/\1/'`
TEMPA=/tmp/${command}A$$
TEMPB=/tmp/${command}B$$
TEMPC=/tmp/${command}C$$
TEMPD=/tmp/${command}D$$
TEMPE=/tmp/${command}E$$
TEMPF=/tmp/${command}F$$
ALL_TEMP="$TEMPA $TEMPB $TEMPC $TEMPD $TEMPE $TEMPF"

trap "/bin/rm -f $ALL_TEMP; exit 1" \
         1 2 3 4 5 6 7 8 10 12 13 15 16 17 19 20 21
trap "/bin/rm -f $ALL_TEMP" 0


###############################################
#
# Processing
#
###############################################
for (i=0; i < $level; i++)
  lynx -dump $url > $TEMPA
  if [$? = 0]
  then
    echo “$url : `cat $TEMPB `
  fi
```