```
#!/bin/bash

################################################################################
# Description for the intranet check (one line, support Markdown syntax)
# Copy the file /bin/ls to `hbtn_ls` (in the current directory) and execute `./hbtn_ls /var`

################################################################################
# The variable 'compare_with_sh' IS OPTIONNAL
#
# Uncomment the following line if you don't want the output of the shell
# to be compared against the output of /bin/sh
#
# It can be useful when you want to check a builtin command that sh doesn't
# implement
# compare_with_sh=0

################################################################################
# The variable 'shell_input' HAS TO BE DEFINED
#
# The content of this variable will be piped to the student's shell and to sh
# as follows: "echo $shell_input | ./hsh"
#
# It can be empty and multiline
shell_input="./hbtn_ls /var"

################################################################################
# The variable 'shell_params' IS OPTIONNAL
#
# The content of this variable will be passed to as the paramaters array to the
# shell as follows: "./hsh $shell_params"
#
# It can be empty
# shell_params=""

################################################################################
# The function 'check_setup' will be called BEFORE the execution of the shell
# It allows you to set custom VARIABLES, prepare files, etc
# If you want to set variables for the shell to use, be sure to export them,
# since the shell will be launched in a subprocess
#
# Return value: Discarded
function check_setup()
{
        $CP "/bin/ls" "$PWD/hbtn_ls"

        return 0
}

################################################################################
# The function 'sh_setup' will be called AFTER the execution of the students
# shell, and BEFORE the execution of the real shell (sh)
# It allows you to set custom VARIABLES, prepare files, etc
# If you want to set variables for the shell to use, be sure to export them,
# since the shell will be launched in a subprocess
#
# Return value: Discarded
function sh_setup()
{
        return 0
}
```

```
################################################################################
# The function `check_callback` will be called AFTER the execution of the shell
# It allows you to clear VARIABLES, cleanup files, ...
#
# It is also possible to perform additionnal checks.
# Here is a list of available variables:
# STATUS -> Path to the file containing the exit status of the shell
# OUTPUTFILE -> Path to the file containing the stdout of the shell
# ERROR_OUTPUTFILE -> Path to the file containing the stderr of the shell
# EXPECTED_STATUS -> Path to the file containing the exit status of sh
# EXPECTED_OUTPUTFILE -> Path to the file containing the stdout of sh
# EXPECTED_ERROR_OUTPUTFILE -> Path to the file continaing the stderr of sh
#
# Parameters:
#     $1 -> Status of the comparison with sh
#             0 -> The output is the same as sh
#             1 -> The output differs from sh
#
# Return value:
#     0  -> Check succeed
#     1  -> Check fails
function check_callback()
{
        status=$1

        $RM -f "$PWD/hbtn_ls"

        return $status
}
```