

# MINISHELL

## [FR] ATTENTION

**Les comportements présents dans cet Excel ne sont pas tous à gérer dans la Mandatory du projet Minishell !**

**Ne vous mettez pas la pression pour essayer de tous les gérer !**

**Vérifiez juste pour ces cas non gerables s'ils ne Segfault pas, ou n'effectuent pas un comportement suspect !**

**Utilisez votre bon sens pour exploiter au mieux ce document et faire un Minishell pas trop ambitieux, selon votre situation du projet.**

**(Par contre, si vous êtes chauds pour tout gérer, GG à vous !)**

**Bon courage et n'hésitez pas à m'envoyer un MP si besoin !**

**[EN] WARNING**

**The behaviors listed in this Excel file are *not all required to be handled* in the mandatory part of the Minishell project!**

**Don't stress yourself out trying to handle all of them!**

**Just make sure that these unmanageable cases don't cause a segfault or exhibit suspicious behavior!**

Use your common sense to make the best use of this document and create a Minishell that is not overly ambitious, depending on your project situation.

**(However, if you're up for handling everything, GG to you!)**

**Good luck, and feel free to DM me if needed!**

(GitHub : [vietdu91](#) / Discord : [vietdu91#6048](#) / Intra : [emtram](#))

## Gestion des comportements



\$> ( ( ( ( ) ) ) )	NON GERE			OK	OK	bash: syntax error near unexpected token `)' \$>	2	
	\$> ""	NON GERE		OK	OK	bash: : command not found \$>	127	
	\$> "hola"			OK	OK	bash: hola: command not found \$>	127	
	\$> 'hola'			OK	OK	bash: hola: command not found \$>	127	
	\$> ''	NON GERE		OK	OK	bash: : command not found \$>	127	
	\$> *	NON GERE		OK	OK	bash: <b>crashtest.c</b> : command not found \$>	127	[BONUS]
	\$> */*	NON GERE		OK	OK	bash: <b>Docs/attest.cation</b> : command not found \$>	127	[BONUS]
	\$> */*	NON GERE		OK	OK	bash: */*: No such file or directory \$>	127	[BONUS] S'il n'y aucun dossier à l'intérieur
	\$> .	NON GERE		OK	OK	bash: .: filename argument required \$>	2	
	\$> ..	NON GERE		OK	OK	bash: ..: command not found \$>	127	
	\$> ~	NON GERE		OK	OK	bash: <b>/home/vietdu91</b> : Is a directory \$>	126	
	\$> ABC=hola	NON GERE		OK	OK	\$>	0	/!\ A gerer comme une erreur
	\$> 4ABC=hola	NON GERE		OK	OK	bash: 4ABC=hola: command not found \$>	127	
	hola			OK	OK	bash: hola: command not found \$>	127	
	\$> hola que tal			OK	OK	bash: hola: command not found \$>	127	
\$> Makefile				OK	OK	bash: Makefile: command not found \$>	127	
	\$> echo			OK	OK	\$>	0	
	\$> echo -n			OK	OK	\$>	0	
	\$> echo Hola			OK	OK	Hola \$>	0	
	\$> echoHola			OK	OK	bash: echoHola: command not found \$>	127	
	\$> echo-nHola			OK	OK	bash: echo-nHola: command not found \$>	127	
	\$> echo -n Hola			OK	OK	Hola\$>	0	
	\$> echo "-n" Hola			OK	OK	Hola\$>	0	
	\$> echo -nHola			OK	OK	-nHola \$>	0	
	\$> echo Hola -n			OK	OK	Hola -n \$>	0	
	\$> echo Hola Que Tal			OK	OK	Hola Que Tal \$>	0	
	\$> echo        Hola			OK	OK	Hola \$>	0	
	\$> echo    Hola        Que        Tal			OK	OK	Hola Que Tal \$>	0	
	\$> echo        \n hola			OK	OK	n hola \$>	0	A gerer ?
	\$> echo "        "   cat -e			OK	OK	\$ \$>	0	
	\$> echo          cat -e			OK	OK	\$ \$>	0	
	\$> ""'echo hola'""' que'""' tal'""'			OK	OK	hola que tal \$>	0	
	\$> echo -n -n			OK	OK	\$>	0	
	\$> echo -n -n Hola Que			OK	OK	Hola Que\$>	0	
	\$> echo -p			OK	OK	-p \$>	0	
	\$> echo -nnnnn			OK	OK	\$>	0	
	\$> echo -n -nnn -nnnn			OK	OK	\$>	0	

\$> echo -n-nnn -nnnn				OK	OK	-n-nnn -nnnn \$>	0		
\$> echo -n -nnn hola -nnnn				OK	OK	hola -nnnn\$>	0		
\$> echo -n -nnn-nnnn				OK	OK	-nnn-nnnn\$>	0		
\$> echo -----n				OK	OK	-----n \$>	0		
\$> echo -nnn -----n				OK	OK	-----n\$>	0		
\$> echo -nnn -----nn---nnnn				OK	OK	-----nn---nnnn\$>	0		
\$> echo -nnn -----nnnn				OK	OK	-----nnnn\$>	0		
\$> echo \$				OK	OK	\$ \$>	0		
\$> echo \$?				OK	OK	0 \$>	0		Renvoie le code de retour du dernier pipeline exécuté à l'avant-plan
\$> echo \$?\$				OK	OK	0\$ \$>	0		
\$> echo \$?   echo \$?   echo \$?				OK	OK	0 \$>	0		
\$> echo \$:\$=   cat -e				OK	OK	:\$:\$= \$>	0		
\$> echo " \$ "   cat -e				OK	OK	\$ \$ \$>	0		
\$> echo ' \$ '   cat -e				OK	OK	\$ \$ \$>	0		
\$> echo \$HOME				OK	OK	/home/vietdu91 \$>	0		
\$> echo \ \$HOME				OK	OK	\$HOME \$>	0		
\$> echo my shit terminal is [\$TERM]				OK	OK	my shit terminal is [xterm-256color] \$>	0		
\$> echo my shit terminal is [\$TERM4				OK	OK	my shit terminal is [ \$>	0		
\$> echo my shit terminal is [\$TERM4]				OK	OK	my shit terminal is [] \$>	0		
\$> echo \$UID				OK	OK	1000 \$>	0		
\$> echo \$HOME9				OK	OK	 \$>	0		Marche pour tous les caractères alphanumériques de l'ASCII
\$> echo \$9HOME				OK	OK	HOME \$>	0		
\$> echo \$HOME%				OK	OK	/home/vietdu91% \$>	0		Marche pour les autres caractères (ponctuation, caractères non-ASCII, etc.)
\$> echo \$UID\$HOME				OK	OK	1000/home/vietdu91% \$>	0		
\$> echo Le path de mon HOME est \$HOME				OK	OK	Le path de mon HOME est /home/vietdu91 \$>	0		
\$> echo \$USER\$var\ \$USER\$USER\ \$USERTest\$USER				OK	OK	vietdu91\$USERvietdu91\$USERTestvietdu91 \$>	0		A ne pas gerer si '\\' non gere : Doit sortir : vietdu91vietdu91vietdu91vietdu91
\$> echo \$hola*				OK	OK	 \$>	0		Cas d'un variable inexistant
\$> echo -nnnn \$hola				OK	OK	\$>	0		
\$> echo > <				OK	OK	bash: syntax error near unexpected token `<' \$>	2		
\$> echo				OK	OK	bash: syntax error near unexpected token ` ' \$>	2		
\$> EechoE				OK	OK	bash: EechoE: command not found \$>	127		
\$> .echo.				OK	OK	bash: .echo.: command not found \$>	127		
\$> >echo>				OK	OK	bash: syntax error near unexpected token `newline' \$>	2		
\$> <echo<				OK	OK	bash: syntax error near unexpected token `newline' \$>	2		
\$> >>echo>>				OK	OK	bash: syntax error near unexpected token `newline' \$>	2		
\$>  echo				OK	OK	bash: syntax error near unexpected token ` ' \$>	2		
\$>  echo -n hola				OK	OK	bash: syntax error near unexpected token ` ' \$>	2		

ECHO	\$> echo *	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0	[BONUS]
	\$> echo '*'	NON GERE		OK	OK	* \$>	0	Marche aussi pour les double quotes
	\$> echo D*	NON GERE		OK	OK	Docs Dockers Drawings \$>	0	[BONUS]
	\$> echo *Z	NON GERE		OK	OK	*Z \$>	0	[BONUS]
	\$> echo *t hola	NON GERE		OK	OK	crashtest.c test.c hola \$>	0	[BONUS]
	\$> echo *t	NON GERE		OK	OK	crashtest.c test.c \$>	0	[BONUS]
	\$> echo \$*	NON GERE		OK	OK	\$>	0	[BONUS]
	\$> echo hola*hola *	NON GERE		OK	OK	hola*hola crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0	[BONUS]
	\$> echo \$hola*	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0	[BONUS]
	\$> echo \$HOME*	NON GERE		OK	OK	/home/vietdu91 \$>	0	[BONUS]
	\$> echo \$" "			OK	OK	\$>	0	
	\$> echo "\$" "			OK	OK	\$ \$>	0	
	\$> echo '\$' '			OK	OK	\$ \$>	0	
	\$> echo \$"HOME"			OK	OK	HOME \$>	0	
	\$> echo \$' 'HOME			OK	OK	HOME \$>	0	
	\$> echo \$" "HOME			OK	OK	HOME \$>	0	
	\$> echo "\$HO"ME			OK	OK	ME \$>	0	
	\$> echo '\$HO' ME			OK	OK	\$HOME \$>	0	
	\$> echo "\$HO" "ME"			OK	OK	ME \$>	0	
	\$> echo '\$HO' 'ME'			OK	OK	\$HOME \$>	0	
	\$> echo "'\$HO' 'ME' "			OK	OK	' 'ME' \$>	0	Il y a bien 3 singles quotes avant le ME. Je ne sais pas pourquoi Excel tronque à l'affichage le 3e quote
	\$> echo ""\$HOME			OK	OK	/home/vietdu91 \$>	0	
	\$> echo "" \$HOME			OK	OK	/home/vietdu91 \$>		
	\$> echo ' '\$HOME			OK	OK	/home/vietdu91 \$>	0	
	\$> echo ' ' \$HOME			OK	OK	/home/vietdu91 \$>		
	\$> echo \$"HO" "ME"			OK	OK	HOME \$>	0	
	\$> echo \$'HO' 'ME'			OK	OK	HOME \$>	0	
	\$> echo \$'HOME'			OK	OK	HOME \$>	0	
	\$> echo "\$"HOME			OK	OK	\$HOME \$>	0	
	\$> echo \$=HOME			OK	OK	\$=HOME \$>	0	
	\$> echo \$"HOLA"			OK	OK	HOLA \$>	0	
	\$> echo \$'HOLA'			OK	OK	HOLA \$>	0	
	\$> echo \$DONTEXIST Hola			OK	OK	Hola \$>	0	Le cas ou la variable n'existe pas et n'est pas importee
	\$> echo "hola"			OK	OK	hola \$>	0	

\$> echo 'hola'				OK	OK	hola \$>	0		
\$> echo ''hola''				OK	OK	hola \$>	0		
\$> echo ''h'o'la''				OK	OK	hola \$>	0		
\$> echo ''''h'o'la''''				OK	OK	'h'o'la' \$>	0		
\$> echo ""'h'o'la'""				OK	OK	hola' \$>	0		
\$> echo""'hola'""				OK	OK	bash: echo'hola': command not found \$>	0		
\$> echo ""'hola'""				OK	OK	'hola' \$>	0		
\$> echo ""hola""				OK	OK	"hola" \$>	0		
\$> echo '''ho''''l'a''''				OK	OK	ho"l"a \$>	0		
\$> echo hola"aaaaaaaaaaaa"				OK	OK	hola \$>	0		
\$> echo hola"aaaaaaaaaaaa"				OK	OK	hola"aaaaaaaaaaaa" \$>	0		
\$> echo hola'aaaaaaaaaaaa'				OK	OK	hola \$>	0		
\$> echo hola'aaaaaaaaaaaa'				OK	OK	hola"aaaaaaaaaaaa" \$>	0		
\$> e"cho hola"				OK	OK	bash: echo hola: command not found \$>	127		
\$> e'cho hola'				OK	OK	bash: echo hola: command not found \$>	127		
\$> echo "hola"   cat -e				OK	OK	hola \$ \$>	0		
\$> echo ""hola				OK	OK	hola \$>	0		
\$> echo "" hola				OK	OK	hola \$>	0		
\$> echo "" hola				OK	OK	hola \$>	0		
\$> echo ""hola				OK	OK	hola \$>	0		
\$> echo "" hola				OK	OK	hola \$>	0		
\$> echo hola""bonjour				OK	OK	holabonjour \$>	0		
\$> "e"'c'ho 'b'"o"nj"o"'u'r				OK	OK	bonjour \$>	0		
\$> ""e"'c'ho 'b'"o"nj"o"'u'r"				OK	OK	bash: e'c'ho 'b'onjo'u'r: command not found \$>	127		
\$> echo "\$DONTEXIST"Makefile				OK	OK	Makefile \$>	0		
\$> echo "\$DONTEXIST""Makefile"				OK	OK	Makefile \$>	0		
\$> echo "\$DONTEXIST" "Makefile"				OK	OK	Makefile \$>	0		Attention a l'espace avant
\$> \$?				OK	OK	bash: 0: command not found \$>	127		Renvoie le code de retour du dernier pipeline exécuté à l'avant-plan
\$> \$?\$?				OK	OK	bash: 00: command not found \$>	127		
\$> ?\$HOME				OK	OK	bash: ?/hone/vietdu91: command not found \$>	127		
\$> \$				OK	OK	bash: \$: command not found \$>	127		
\$> \$HOME				OK	OK	bash: /home/vietdu91: Is a directory \$>	126		
\$> \$HOMEdskjfhfkdsfhfsd				OK	OK	\$>	0		
\$> "\$HOMEdskjfhfkdsfhfsd"				OK	OK	bash: : command not found \$>	127		
\$> '\$HOMEdskjfhfkdsfhfsd'				OK	OK	bash: \$HOMEdsdddfdfssfdfs: command not found \$>	127		
\$> \$DONTEXIST				OK	OK	\$>	0		Cas d'un variable inexistant



\$> export \$DONTEXIST				OK	OK	... export HOME="/home/vietdu91" export PATH="..." \$>	0		Le cas ou la variable n'existe pas et n'est pas importee
\$> export   grep "HOME"				OK	OK	export HOME="/home/vietdu91" \$>	0		
\$> export ""				OK	OK	bash: export: `': not a valid identifier \$>	1		
\$> export =				OK	OK	bash: export: '=': not a valid identifier \$>	1		
\$> export %				OK	OK	bash: export: '%': not a valid identifier \$>	1		
\$> export \$?				OK	OK	bash: export: `0': not a valid identifier \$>	1		
\$> export ?=2				OK	OK	bash: export: `?=2': not a valid identifier \$>	1		
\$> export 9HOLA=				OK	OK	bash: export: `9HOLA=': not a valid identifier \$>	1		
\$> export HOLA9=bonjour \$> env				OK	OK	... HOLA9=bonjour \$>	0 0		
\$> export _HOLA=bonjour \$> env				OK	OK	... _HOLA=bonjour \$>	0 0		
\$> export ____HOLA=bonjour \$> env				OK	OK	... ____HOLA=bonjour \$>	0 0		
\$> export _HO_LA_=bonjour \$> env				OK	OK	... _HO_LA_=bonjour \$>	0 0		
\$> export HOL@=bonjour				OK	OK	bash: export: `HOL@=bonjour': not a valid identifier \$>	1		Cas où le nom de variable ne contient pas de lettres, ni de chiffres, ni d'underscores
\$> export HOL~A=bonjour	NON GERE			OK	OK	bash: export: `HOL~A=bonjour': not a valid identifier \$>	1		
\$> export -HOLA=bonjour				OK	OK	bash: export: -H: invalid option \$>	2		
\$> export --HOLA=bonjour				OK	OK	bash: export: --: invalid option \$>	2		
\$> export HOLA-=bonjour				OK	OK	bash: export: `HOLA-=bonjour': not a valid identifier \$>	1		
\$> export HO-LA=bonjour				OK	OK	bash: export: `HO-LA=bonjour': not a valid identifier \$>	1		
\$> export HOL.A=bonjour				OK	OK	bash: export: `HOL.A=bonjour': not a valid identifier \$>	1		
\$> export HOL\\\$A=bonjour	NON GERE			OK	OK	bash: export: `HOL\\\$A=bonjour': not a valid identifier \$>	1		
\$> export HO\\\$LA=bonjour	NON GERE			OK	OK	bash: export: `HO\\\$LA=bonjour': not a valid identifier \$>	1		
\$> export HOL}A=bonjour				OK	OK	bash: export: `HOL}A=bonjour': not a valid identifier \$>	1		
\$> export HOL{A=bonjour				OK	OK	bash: export: `HOL{A=bonjour': not a valid identifier \$>	1		
\$> export HO*LA=bonjour				OK	OK	bash: export: `HO*LA=bonjour': not a valid identifier \$>	1		
\$> export HO#LA=bonjour				OK	OK	bash: export: `HO#LA=bonjour': not a valid identifier \$>	1		
\$> export HO@LA=bonjour				OK	OK	bash: export: `HO@LA=bonjour': not a valid identifier \$>	1		
\$> export HO!LA=bonjour				OK	OK	bash: !LA=bonjour: event not found \$>	0		
\$> export HO\$?LA=bonjour \$> env				OK	OK	... HO0LA=bonjour \$>	0		
\$> export +HOLA=bonjour				OK	OK	bash: export: `+HOLA=bonjour': not a valid identifier \$>	1		
\$> export HOL+A=bonjour				OK	OK	bash: export: `HOL+A=bonjour': not a valid identifier \$>	1		
\$> export HOLA+=bonjour \$> env	NON GERE			OK	OK	... HOLA=bonjour \$>	0		
\$> export HOLA=bonjour \$> export HOLA+=bonjour \$> env	NON GERE			OK	OK	... HOLA=bonjourbonjour \$>	0		"+=" s'ajoute au contenu de la variable



ENV & EXPORT & UNSET	<pre>\$&gt; export HOLA=bonjour \$&gt; env</pre>	NON GERE			OK	OK	<pre>... PATH=... \$&gt;</pre>	0		
	<pre>\$&gt; export HOLA =bonjour</pre>				OK	OK	<pre>bash: export: '=bonjour': not a valid identifier \$&gt;</pre>	1		
	<pre>\$&gt; export HOLA = bonjour</pre>				OK	OK	<pre>bash: export: '=': not a valid identifier \$&gt;</pre>	1		
	<pre>\$&gt; export HOLA=bon jour \$&gt; env</pre>				OK	OK	<pre>... HOLA=bon \$&gt;</pre>	0		
	<pre>\$&gt; export HOLA= bonjour \$&gt; env</pre>				OK	OK	<pre>... HOLA= \$&gt;</pre>	0		
	<pre>\$&gt; export HOLA=bonsoir \$&gt; export HOLA=bonretour \$&gt; export HOLA=bonjour \$&gt; env</pre>				OK	OK	<pre>... HOLA=bonjour \$&gt;</pre>	0 0 0		
	<pre>\$&gt; export HOLA=\$HOME \$&gt; env</pre>				OK	OK	<pre>... HOLA=/home/vietdu91 \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA=bonjour\$HOME \$&gt; env</pre>				OK	OK	<pre>... HOLA=bonjour/home/vietdu91 \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA=\$HOMEbonjour \$&gt; env</pre>				OK	OK	<pre>... HOLA= \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA=bon\$jour \$&gt; env</pre>				OK	OK	<pre>... HOLA=bon \$&gt;</pre>	0 0		Le cas où la variable "\$jour" n'existe pas
	<pre>\$&gt; export HOLA=bon\jour \$&gt; env</pre>	NON GERE			OK	OK	<pre>... HOLA=bonjour \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA=bon\\jour \$&gt; env</pre>	NON GERE			OK	OK	<pre>... HOLA=bon\jour \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA=bon(jour</pre>	NON GERE			OK	OK	<pre>bash: syntax error near unexpected token `(' \$&gt;</pre>	2		Marche pour les caractères : ( )
	<pre>\$&gt; export HOLA=bon()jour</pre>	NON GERE			OK	OK	<pre>bash: syntax error near unexpected token `(' \$&gt;</pre>	2		
	<pre>\$&gt; export HOLA=bon&amp;jour</pre>	NON GERE			OK	OK	<pre>bash: jour: command not found \$&gt;</pre>	127		Marche pour les caractères : &
	<pre>\$&gt; export HOLA=bon@jour \$&gt; env</pre>				OK	OK	<pre>\$&gt; env ... HOLA=bon@jour \$&gt;</pre>	0		
	<pre>\$&gt; export HOLA=bon;jour \$&gt; env</pre>				OK	OK	<pre>bash: jour: command not found \$&gt; env ... HOLA=bon \$&gt;</pre>	127 0		
	<pre>\$&gt; export HOLA=bon!jour</pre>				OK	OK	<pre>bash: !jour: event not found \$&gt;</pre>	1		
	<pre>\$&gt; export HOLA=bon"jour" \$&gt; env</pre>				OK	OK	<pre>... HOLA=bonjour PATH=... \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA\$USER=bonjour \$&gt; env</pre>				OK	OK	<pre>... HOLAvietdu91=bonjour PATH=... \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA=bonjour=casse-toi \$&gt; echo \$HOLA</pre>				OK	OK	<pre>HOLA=bonjour=casse-toi \$&gt;</pre>	0 0		
	<pre>\$&gt; export "HOLA=bonjour"=casse-toi \$&gt; echo \$HOLA</pre>				OK	OK	<pre>HOLA=bonjour=casse-toi \$&gt;</pre>	0 0		
	<pre>\$&gt; export HOLA=bonjour \$&gt; export BYE=casse-toi \$&gt; echo \$HOLA et \$BYE</pre>				OK	OK	<pre>bonjour et casse-toi \$&gt;</pre>	0 0 0		
	<pre>\$&gt; export HOLA=bonjour BYE=casse-toi \$&gt; echo \$HOLA et \$BYE</pre>				OK	OK	<pre>bonjour et casse-toi \$&gt;</pre>	0 0		
	<pre>\$&gt; export \$HOLA=bonjour \$&gt; env</pre>				OK	OK	<pre>... bonjour=bonjour PATH=... \$&gt;</pre>	0		

<pre>\$&gt; export HOLA="bonjour  " \$&gt; echo \$HOLA   cat -e</pre>				OK	OK	<pre>bonjour\$ \$&gt;</pre>	0		
<pre>\$&gt; export HOLA="  -n bonjour  " \$&gt; echo \$HOLA</pre>				OK	OK	<pre>bonjour\$&gt;</pre>	0		
<pre>\$&gt; export HOLA="bonjour  "/" \$&gt; echo \$HOLA</pre>				OK	OK	<pre>bonjour / \$&gt;</pre>	0		
<pre>\$&gt; export HOLA="'" \$&gt; echo " \$HOLA "   cat -e</pre>				OK	OK	<pre>" \$ \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=at \$&gt; c\$HOLA Makefile</pre>				OK	OK	<pre>[cela affiche le Makefile] \$&gt;</pre>	0		
<pre>\$&gt; export "" HOLA=bonjour \$&gt; env</pre>				OK	OK	<pre>bash: export: `': not a valid identifier \$&gt; env ... HOLA=bonjour \$&gt;</pre>	1		
<pre>\$&gt; export HOLA="cat Makefile   grep NAME" \$&gt; echo \$HOLA</pre>				OK	OK	<pre>cat Makefile   grep NAME \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=hey \$&gt; echo \$HOLA\$HOLA\$HOLA=hey\$HOLA</pre>				OK	OK	<pre>heyheyhey=heyhey \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=" bonjour hey " \$&gt; echo \$HOLA   cat -e</pre>				OK	OK	<pre>bonjour hey\$ \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=" bonjour hey " \$&gt; echo ""\$HOLA""   cat -e</pre>				OK	OK	<pre> bonjour hey \$ \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=" bonjour hey " \$&gt; echo wesh"\$HOLA"   cat -e</pre>				OK	OK	<pre>wesh bonjour hey \$ \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=" bonjour hey " \$&gt; echo wesh""\$HOLA.</pre>				OK	OK	<pre>wesh bonjour hey . \$&gt;</pre>	0		/!\ Bien supprimer les espaces en trop au debut et a la fin du string d'export
<pre>\$&gt; export HOLA=" bonjour hey " \$&gt; echo wesh\$""\$HOLA.</pre>				OK	OK	<pre>weshHOLA. \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=" bonjour hey " \$&gt; echo wesh\$"\$HOLA HOLA".</pre>				OK	OK	<pre>weshHOLA HOLA. \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=bonjour \$&gt; export HOLA=" hola et \$HOLA" \$&gt; echo \$HOLA</pre>				OK	OK	<pre>hola et bonjour \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=bonjour \$&gt; export HOLA=' hola et \$HOLA' \$&gt; echo \$HOLA</pre>				OK	OK	<pre>hola et \$HOLA \$&gt;</pre>	0		
<pre>\$&gt; export HOLA=bonjour \$&gt; export HOLA=" hola et \$HOLA"\$HOLA \$&gt; echo \$HOLA</pre>				OK	OK	<pre>hola et bonjourbonjour \$&gt;</pre>	0		
<pre>\$&gt; export HOLA="ls      -l      - a" \$&gt; echo \$HOLA</pre>				OK	OK	<pre>ls -l - a \$&gt;</pre>	0		
<pre>\$&gt; export HOLA="s -la" \$&gt; l\$HOLA</pre>				OK	OK	<pre>total 16 drwx----- 2 vietdu91 [...] . drwxrwxewt 51 root   [...] .. -rwxr-xr-x  8 vietdu91 [...] crashtest.c [...] \$&gt;</pre>	0		
<pre>\$&gt; export HOLA="s -la" \$&gt; l"\$HOLA"</pre>				OK	OK	<pre>bash: ls -la: command not found \$&gt;</pre>	127		
<pre>\$&gt; export HOLA="s -la" \$&gt; l'\$HOLA'</pre>				OK	OK	<pre>bash: l\$HOLA: command not found \$&gt;</pre>	127		
<pre>\$&gt; export HOLA="l" \$&gt; \$HOLAs</pre>				OK	OK	<pre>\$&gt;</pre>	0		
<pre>\$&gt; export HOLA="l" \$&gt; "\$HOLA"s</pre>				OK	OK	<pre>crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$&gt;</pre>	0		
<pre>\$&gt; export HOL=A=bonjour \$&gt; env</pre>				OK	OK	<pre>... HOL=A=bonjour \$&gt;</pre>	0		
<pre>\$&gt; export HOLA="l" \$&gt; '\$HOLA's</pre>				OK	OK	<pre>bash: \$HOLAs: command not found \$&gt;</pre>	127		
<pre>\$&gt; export HOL=A="" \$&gt; env</pre>				OK	OK	<pre>... HOL=A= \$&gt;</pre>	0		
<pre>\$&gt; export TE+S=T \$&gt; env</pre>				OK	OK	<pre>bash: export: `TE+S=T': not a valid identifier \$&gt;</pre>	1		
<pre>\$&gt; export ""=""</pre>				OK	OK	<pre>bash: export: `=': not a valid identifier \$&gt;</pre>	1		
<pre>\$&gt; export '='=''</pre>				OK	OK	<pre>bash: export: `=': not a valid identifier \$&gt;</pre>	1		
<pre>\$&gt; export "=="=="</pre>				OK	OK	<pre>bash: export: `===': not a valid identifier \$&gt;</pre>	1		

\$> export '==''				OK	OK	bash: export: `==`: not a valid identifier \$>	1	
\$> export HOLA=p \$> export BYE=w \$> \$HOLA"BYE"d				OK	OK	bash: pBYEd: command not found \$>	127	
\$> export HOLA=p \$> export BYE=w \$> "\$HOLA" '\$BYE' d				OK	OK	bash: p\$BYEd: command not found \$>	127	
\$> export HOLA=p \$> export BYE=w \$> "\$HOLA"\$"BYE"d				OK	OK	/home/vietdu91/42_works/minishell	0	
\$> export HOLA=p \$> export BYE=w \$> \$"HOLA"\$"BYE"d				OK	OK	bash: HOLABYEd: command not found \$>	127	
\$> export HOLA=p \$> export BYE=w \$> \$'HOLA'\$"BYE"d				OK	OK	bash: HOLABYEd: command not found \$>	127	
\$> export HOLA=-n \$> "echo \$HOLA" hey				OK	OK	bash: echo -n: command not found \$>	127	
\$> export A=1 B=2 C=3 D=4 E=5 F=6 G=7 H=8 \$> echo "\$A'\$B'"'\$C"\$D'\$E'"'\$F'"'"'\$G'\$H"				OK	OK	1'2\$C"\$D5"\$F'7'8 \$>	0 0	
\$> export HOLA=bonjour \$> env \$> unset HOLA \$> env				OK	OK	... PATH=... \$>	0 0 0 0	
\$> export HOLA=bonjour \$> env \$> unset HOLA \$> unset HOLA \$> env				OK	OK	... PATH=... \$>	0 0 0 0 0	
\$> unset PATH \$> echo \$PATH				OK	OK	\$>	0 0	
\$> unset PATH \$> ls				OK	OK	bash: ls: No such file or directory	127	
\$> unset ""				OK	OK	bash: unset: `': not a valid identifier \$>	1	
\$> unset INEXISTANT				OK	OK	\$>	0	Cas où la variable n'existe pas
\$> unset PWD \$> env   grep PWD \$> pwd				OK	OK	\$> \$> /home/vietdu91/42_works/minishell \$>	0 0 0	
\$> pwd \$> unset PWD \$> env   grep PWD \$> cd \$PWD \$> pwd				OK	OK	/home/vietdu91/42_works/minishell \$> \$> \$> \$> /home/vietdu91	0 0 0 0 0	
\$> unset OLDPWD \$> env   grep OLDPWD				OK	OK	\$> \$>	0 0	
\$> unset 9HOLA				OK	OK	bash: unset: `9HOLA': not a valid identifier \$>	1	
\$> unset HOLA9				OK	OK	\$>	0	
\$> unset HOL?A				OK	OK	bash: unset: `HOL?A': not a valid identifier \$>	1	
\$> unset HOLA HOL?A				OK	OK	bash: unset: `HOL?A': not a valid identifier \$>	1 1	Il unset bien HOLA
\$> unset HOL?A HOLA				OK	OK	bash: unset: `HOL?A': not a valid identifier \$>	1	Il unset bien HOLA
\$> unset HOL?A HOL.A				OK	OK	bash: unset: `HOL?A': not a valid identifier bash: unset: `HOL.A': not a valid identifier \$>	1	
\$> unset HOLA=				OK	OK	bash: unset: `HOLA=': not a valid identifier \$>	1	
\$> unset HOL\\\\\\A	NON GERE			OK	OK	bash: unset: `HOL\\A': not a valid identifier	1	
\$> unset HOL;A	NON GERE			OK	OK	bash: A: command not found	127	
\$> unset HOL.A				OK	OK	bash: unset: `HOL.A': not a valid identifier	1	
\$> unset HOL+A				OK	OK	bash: unset: `HOL+A': not a valid identifier	1	
\$> unset HOL=A				OK	OK	bash: unset: `HOL=A': not a valid identifier	1	
\$> unset HOL{A				OK	OK	bash: unset: `HOL{A': not a valid identifier	1	
\$> unset HOL}A				OK	OK	bash: unset: `HOL}A': not a valid identifier	1	

	\$> unset HOL-A			OK	OK	bash: unset: `HOL-A': not a valid identifier	1		
	\$> unset -HOLA			OK	OK	bash: unset: -H: invalid option	2		
	\$> unset _HOLA			OK	OK	\$>	0		
	\$> unset HOL_A			OK	OK	\$>	0		
	\$> unset HOLA_			OK	OK	\$>	0		
	\$> unset HOL*A			OK	OK	bash: unset: `HOL*A': not a valid identifier	1		
	\$> unset HOL#A			OK	OK	bash: unset: `HOL#A': not a valid identifier	1		
	\$> unset \$HOLA			OK	OK	\$>	0		Il va unset le contenu de \$HOLA, c'est-a-dire la variable bonjour
	\$> unset \$PWD			OK	OK	bash: unset: `/home/vietdu91/42_works/minishell': not a valid identifier	1		
	\$> unset HOL@			OK	OK	bash: unset: `HOL@': not a valid identifier	1		
	\$> unset HOL!A			OK	OK	bash: !A: event not found	1		
	\$> unset HOL^A			OK	OK	bash: unset: `HOL^A': not a valid identifier	1		
	\$> unset HOL\$?A			OK	OK	\$>	0		Unset prend en compte le contenu de \$?, c'est-a-dire qu'il lit HOL0A ou HOL127A
	\$> unset HOL~\A			OK	OK	bash: unset: `HOL~': not a valid identifier	1		
	\$> unset "" HOLA \$> env   grep HOLA			OK	OK	bash: unset: `': not a valid identifier \$> \$>	1 0		HOLA sera quand meme unset !!
	\$> unset PATH \$> echo \$PATH			OK	OK	\$>	0 0		
	\$> unset PATH \$> cat Makefile			OK	OK	bash: cat: No such file or directory \$>	0 1		
	\$> unset =			OK	OK	bash: unset: `=': not a valid identifier	0		
	\$> unset =====			OK	OK	bash: unset: `=====': not a valid identifier	0		
	\$> unset ++++++			OK	OK	bash: unset: `++++++': not a valid identifier	0		
	\$> unset _____			OK	OK	\$>	0		
	\$> unset export			OK	OK	\$>	0		
	\$> unset echo			OK	OK	\$>	0		
	\$> unset pwd			OK	OK	\$>	0		
	\$> unset cd			OK	OK	\$>	0		
	\$> unset unset			OK	OK	\$>	0		
	\$> unset sudo			OK	OK	\$>	0		
	\$> export hola   unset hola   echo \$?			OK	OK	0 \$>	0		
FICHIERS BINAIRE	\$> /bin/echo			OK	OK	\$>	0		
	\$> /bin/echo Hola Que Tal			OK	OK	Hola Que Tal \$>	0		
	\$> /bin/env			OK	OK	... PATH=... \$>	0		
	\$> /bin/cd Desktop			OK	OK	bash: /bin/cd: No such file or directory	127		
HISTORIQUE	\$> history	NON GERE		OK	OK	... 558 echo \$? 559 clear 560 history \$>	0		Affiche les 500 dernières commandes
	\$> [touche du haut]			OK	OK	\$> clear	/		Defile l'historique
	\$> pwd			OK	OK	/home/vietdu91/42_works/minishell \$>	0		Retourne \$PWD
	\$> pwd hola			OK	OK	/home/vietdu91/42_works/minishell \$>	0		
	\$> pwd ./hola			OK	OK	/home/vietdu91/42_works/minishell \$>	0		
	\$> pwd hola que tal			OK	OK	/home/vietdu91/42_works/minishell \$>	0		
	\$> pwd -p			OK	OK	bash: pwd: -p: invalid option \$>	2		
	\$> pwd --p			OK	OK	bash: pwd: --: invalid option \$>	2		

CD	PWD	\$> pwd ---p			OK	OK	bash: pwd: --: invalid option \$>	2		
		\$> pwd -- p	NON GERE		OK	OK	/home/vietdu91/42_works/minishell \$>	0		
		\$> pwd pwd pwd			OK	OK	/home/vietdu91/42_works/minishell \$>	0		N'affiche qu'une fois
		\$> pwd ls			OK	OK	/home/vietdu91/42_works/minishell \$>	0		
		\$> pwd ls env			OK	OK	/home/vietdu91/42_works/minishell \$>	0		
		\$> cd			OK	OK	\$>	0		On doit se retrouver dans le dossier défini par \$HOME /home/vietdu91
		\$> cd .			OK	OK	\$>	0		L'user reste dans le même dossier /home/vietdu91/42_works/minishell
		\$> cd ./			OK	OK	\$>	0		/home/vietdu91/42_works/minishell
		\$> cd ./././.			OK	OK	\$>	0		/home/vietdu91/42_works/minishell
		\$> cd ././././			OK	OK	\$>	0		/home/vietdu91/42_works/minishell
		\$> cd ..			OK	OK	\$>	0		On se retrouve au dossier précédent /home/vietdu91/42_works
		\$> cd ../			OK	OK	\$>	0		/home/vietdu91/42_works
		\$> cd ../..			OK	OK	\$>	0		/home/vietdu91
		\$> cd ../.			OK	OK	\$>	0		/home/vietdu91/42_works
		\$> cd .././././.			OK	OK	\$>	0		/home/vietdu91/42_works
		\$> cd srcs			OK	OK	\$>	0		/home/vietdu91/42_works/minishell/srcs
		\$> cd srcs objs			OK	OK	bash: cd: too many arguments \$>	1		/home/vietdu91/42_works/minishell
		\$> cd 'srcs'			OK	OK	\$>	0		/home/vietdu91/42_works/minishell/srcs
		\$> cd "srcs"			OK	OK	\$>	0		/home/vietdu91/42_works/minishell/srcs
		\$> cd '/etc'			OK	OK	\$>	0		Marche aussi avec les double quotes /
		\$> cd /e'tc'			OK	OK	\$>	0		/etc
		\$> cd /e"tc"			OK	OK	\$>	0		/etc
		\$> cd sr			OK	OK	bash: cd: sr: No such file or directory \$>	1		
		\$> cd Makefile			OK	OK	bash: cd: Makefile: Not a directory \$>	1		
		\$> cd ../minishell			OK	OK	\$>	0		/home/vietdu91/42_works/minishell
		\$> cd ../../../../../../../..			OK	OK	\$>	0		/
		\$> cd ../../../../../bin/ls			OK	OK	bash: cd: ../../../../../bin/ls: No such file or directory \$>	1		/home/vietdu91/42_works/minishell
		\$> cd /			OK	OK	\$>	0		/
		\$> cd '/'			OK	OK	\$>	0		Marche aussi avec les double quotes /
		\$> cd //	NON GERE		OK	OK	// \$>	0		/
		\$> cd '///'	NON GERE		OK	OK	// \$>	0		Marche aussi avec les double quotes /
		\$> cd ///			OK	OK	/ \$>	0		/
		\$> cd /////			OK	OK	/ \$>	0		/
		\$> cd '/////'			OK	OK	/ \$>	0		Marche aussi avec les double quotes /
		\$> cd /minishell			OK	OK	bash: cd: /minishell: No such file or directory \$>	1		
		\$> cd /			OK	OK	\$>	0		/
		\$> cd ..			OK	OK	bash: cd: _: No such file or directory \$>	1		
		\$> cd -			OK	OK	/home/vietdu91/42_works/minishell \$>	0		Retourne à \$OLD_PWD \$OLD_PWD et \$PWD sont inversés /home/vietdu91/42_works/minishell

\$> cd --	NON GERE			OK	OK	\$>	0		Retourne à \$HOME \$OLD_PWD et \$PWD sont inversés /home/vietdu91
\$> cd ---				OK	OK	bash: cd: --: invalid option \$>	2		
\$> cd \$HOME				OK	OK	\$>	0		/home/vietdu91
\$> cd \$HOME \$HOME				OK	OK	bash: cd: too many arguments \$>	1		
\$> cd \$HOME/42_works				OK	OK	\$>	0		/home/vietdu91/42_works
\$> cd "\$PWD/srcs"				OK	OK	\$>	0		/home/vietdu91/42_works/minishell/srcs
\$> cd '\$PWD/srcs'				OK	OK	bash: cd: \$PWD/srcs: No such file or directory \$>	1		
\$> unset HOME \$> cd \$HOME				OK	OK	bash: cd: HOME not set \$>	1		
\$> unset HOME \$> export HOME= \$> cd				OK	OK	\$>	0		/home/vietdu91/42_works/minishell
\$> unset HOME \$> export HOME \$> cd				OK	OK	bash: cd: HOME not set \$>	1		
\$> cd minishell Docs crashtest.c				OK	OK	bash: cd: too many arguments \$>	1		
\$> cd /   echo \$? \$> pwd				OK	OK	0 \$>	0 0		/home/vietdu91/42_works/minishell
\$> cd ~				OK	OK	\$>	0		/home/vietdu91
\$> cd ~/	NON GERE			OK	OK	\$>	0		/home/vietdu91
\$> cd ~/   echo \$? \$> pwd	NON GERE			OK	OK	0 \$>	0		/home/vietdu91/42_works/minishell
\$> cd *	NON GERE			OK	OK	\$>	0		[BONUS] S'il n'y a qu'un seul dossier et rien d'autre
\$> cd *	NON GERE			OK	OK	bash: cd: minishell: No such file or directory \$>	1		[BONUS] S'il n'y a qu'un seul fichier et rien d'autre
\$> cd *	NON GERE			OK	OK	bash: cd: too many arguments \$>	1		[BONUS] S'il y au moins deux éléments
\$> mkdir a \$> mkdir a/b \$> cd a/b \$> rm -r ../../a \$> cd ..				OK	OK	chdir: error retrieving current directory: getcwd: cannot access parent directories: No such file or directory \$>	1		
\$> mkdir a \$> mkdir a/b \$> cd a/b \$> rm -r ../../a \$> pwd				OK	OK	pwd: error retrieving current directory: getcwd: cannot access parent directories: No such file or directory \$>	1		
\$> mkdir a \$> mkdir a/b \$> cd a/b \$> rm -r ../../a \$> echo \$PWD \$> echo \$OLDPWD				OK	OK	/home/vietdu91/42_works/minishell/a/b \$> /home/vietdu91/42_works/minishell \$>	0 0		
\$> mkdir a \$> mkdir a/b \$> cd a/b \$> rm -r ../../a \$> cd \$> echo \$PWD \$> echo \$OLDPWD				OK	OK	/home \$> /home/vietdu91/42_works/minishell/a/b \$>	0 0		
\$> mkdir a \$> cd a \$> rm -r ../a \$> echo \$PWD \$> echo \$OLDPWD				OK	OK	../../../../home/vietdu91/42_works/minishell/a \$> ../../../../home/vietdu91/42_works/minishell \$>	0 0		
\$> export CDPATH=/ \$> cd \$HOME/..	NON GERE			OK	OK	\$>	0 0		A gerer ? /home
\$> export CDPATH=/ \$> cd home/vietdu91	NON GERE			OK	OK	/home/vietdu91 \$>	0 0		A gerer ? /home/vietdu91
\$> export CDPATH=./ \$> cd .	NON GERE			OK	OK	\$>	0 0		A gerer ? /home/vietdu91/42_works/minishell
\$> export CDPATH=./ \$> cd ..	NON GERE			OK	OK	\$>	0 0		A gerer ? /home/vietdu91/42_works
\$> chmod 000 minishell \$> ./minishell				OK	OK	bash: ./minishell : Permission denied \$>	126		

BÂTARDS	\$> ls hola			OK	OK	ls: cannot access 'hola': No such file or directory \$>	2	
	\$> ./Makefile			OK	OK	bash: ./Makefile: Permission denied \$>	126	
	\$> ./minishell			OK	OK	\$>	0	Relance le Minishell Il faut donc 2 fois exit pour exit
	\$> env   grep SHLVL \$> ./minishell \$> env   grep SHLVL \$> exit \$> env   grep SHLVL	NON GERE		OK	OK	\$>	0 0 0 0 0	
	\$> touch hola \$> ./hola			OK	OK	bash: ./hola: Permission denied \$>	126	
	\$> env "wc" -l			OK	OK	66 \$>	0	
	\$> env "wc "-l			OK	OK	bash: wc -l: command not found \$>	127	
	\$> expr 1 + 1			OK	OK	2 \$>	0	
	\$> expr \$? + \$?			OK	OK	0 \$>	0	Fait la somme de la valeur de \$?
	\$> env -i ./minishell \$> env			OK	OK	PWD=/mnt/nfs/homes/emtran/Desktop/42_minishell SHLVL=1 =/usr/bin/env \$>	0	
	\$> env -i ./minishell \$> export			OK	OK	export OLDPWD export PWD="/mnt/nfs/homes/emtran/Desktop/42_minishell" export SHLVL="1" \$>	0	
	\$> env -i ./minishell \$> cd			OK	OK	bash: cd: HOME not set \$>	1	
	\$> env -i ./minishell \$> cd ~	NON GERE		OK	OK	\$>	0	/home/vietdu91
	\$> exit			OK	OK	exit ~/minishell \$>	0	
	\$> exit exit			OK	OK	exit bash: exit: exit: numeric argument required ~/minishell \$>	2	
	\$> exit hola			OK	OK	exit bash: exit: hola: numeric argument required ~/minishell \$>	2	
	\$> exit hola que tal			OK	OK	exit bash: exit: hola: numeric argument required ~/minishell \$>	2	
	\$> exit 42			OK	OK	exit ~/minishell \$>	42	
	\$> exit 000042			OK	OK	exit ~/minishell \$>	42	
	\$> exit 666			OK	OK	exit ~/minishell \$>	154	
	\$> exit 666 666			OK	OK	exit bash: exit: too many arguments \$>	1	
	\$> exit -666 666			OK	OK	exit bash: exit: too many arguments \$>	1	
	\$> exit hola 666			OK	OK	exit bash: exit: hola: numeric argument required ~/minishell \$>	2	
	\$> exit 666 666 666 666			OK	OK	exit bash: exit: too many arguments \$>	1	
	\$> exit 666 hola 666			OK	OK	exit bash: exit: too many arguments \$>	1	
	\$> exit hola 666 666			OK	OK	exit bash: exit: hola: numeric argument required ~/minishell \$>	2	
	\$> exit 259			OK	OK	exit ~/minishell \$>	3	
	\$> exit -4			OK	OK	exit ~/minishell \$>	252	
	\$> exit -42			OK	OK	exit ~/minishell \$>	214	

EXIT	\$> exit -0000042			OK	OK	exit ~/minishell \$>	214		
	\$> exit -259			OK	OK	exit ~/minishell \$>	253		
	\$> exit -666			OK	OK	exit ~/minishell \$>	102		
	\$> exit +666			OK	OK	exit ~/minishell \$>	154		
	\$> exit 0			OK	OK	exit ~/minishell \$>	0		
	\$> exit +0			OK	OK	exit ~/minishell \$>	0		
	\$> exit -0			OK	OK	exit ~/minishell \$>	0		
	\$> exit +42			OK	OK	exit ~/minishell \$>	42		
	\$> exit -69 -96			OK	OK	exit bash: exit: too many arguments \$>	1		
	\$> exit --666			OK	OK	exit bash: exit: --666: numeric argument required ~/minishell \$>	2		
	\$> exit ++++666			OK	OK	exit bash: exit: ++++666: numeric argument required ~/minishell \$>	2		
	\$> exit ++++++0			OK	OK	exit bash: exit: ++++++0: numeric argument required ~/minishell \$>	2		
	\$> exit -----0			OK	OK	exit bash: exit: -----0: numeric argument required ~/minishell \$>	2		
	\$> exit "666"			OK	OK	exit ~/minishell \$>	154		
	\$> exit '666'			OK	OK	exit ~/minishell \$>	154		
	\$> exit '-666'			OK	OK	exit ~/minishell \$>	102		Marche aussi pour les double quotes
	\$> exit '+666'			OK	OK	exit ~/minishell \$>	154		Marche aussi pour les double quotes
	\$> exit '----666'			OK	OK	exit bash: exit: ----666: numeric argument required ~/minishell \$>	2		Marche aussi pour les double quotes
	\$> exit '++++666'			OK	OK	exit bash: exit: ++++666: numeric argument required ~/minishell \$>	2		Marche aussi pour les double quotes
	\$> exit '6'66			OK	OK	exit ~/minishell \$>	154		Marche aussi pour les double quotes
	\$> exit '2'66'32'			OK	OK	exit ~/minishell \$>	8		Marche aussi pour les double quotes
	\$> exit "'666'"			OK	OK	exit bash: exit: '666': numeric argument required ~/minishell \$>	2		
	\$> exit '"666"'			OK	OK	exit bash: exit: "666": numeric argument required ~/minishell \$>	2		
	\$> exit '666'"666"666			OK	OK	exit ~/minishell \$>	170		
	\$> exit +'666'"666"666			OK	OK	exit ~/minishell \$>	170		
	\$> exit -'666'"666"666			OK	OK	exit ~/minishell \$>	86		
	\$> exit 9223372036854775807			OK	OK	exit ~/minishell \$>	255		
	\$> exit 9223372036854775808			OK	OK	exit bash: exit: 9223372036854775808: numeric argument required ~/minishell \$>	2		
	\$> exit -9223372036854775808			OK	OK	exit ~/minishell \$>	0		
	\$> exit -9223372036854775809			OK	OK	exit bash: exit: -9223372036854775809: numeric argument required ~/minishell \$>	2		



PIPES	\$> cat   cat   cat   ls			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c	0		Apparaît la ligne ls Et 3 retours à la ligne avec la touche Entrée
	\$> ls   exit			OK	OK	\$>	0		Ne fait rien
	\$> ls   exit 42			OK	OK	\$>	42		Ne fait rien
	\$> exit   ls			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c	0		
	\$> echo hola > bonjour \$> exit   cat -e bonjour			OK	OK	hola\$ \$>	0		
	\$> echo hola > bonjour \$> cat -e bonjour   exit			OK	OK	\$>	0		
	\$> echo   echo			OK	OK	\$>	0		
	\$> echo hola   echo que tal			OK	OK	que tal \$>	0		
	\$> pwd   echo hola			OK	OK	hola \$>	0		
	\$> env   echo hola			OK	OK	hola \$>	0		
	\$> echo oui   cat -e			OK	OK	oui\$ \$>	0		
	\$> echo oui   echo non   echo hola   grep oui			OK	OK	\$>	0		
	\$> echo oui   echo non   echo hola   grep non			OK	OK	\$>	0		
	\$> echo oui   echo non   echo hola   grep hola			OK	OK	hola \$>	0		
	\$> echo hola   cat -e   cat -e   cat -e			OK	OK	hola\$\$\$ \$>	0		
	\$> cd ..   echo "hola"			OK	OK	hola \$>	0		/home/vietdu91/42_works/minishell
	\$> cd /   echo "hola"			OK	OK	hola \$>	0		/home/vietdu91/42_works/minishell
	\$> cd ..   pwd			OK	OK	/home/vietdu91/42_works/minishell \$>	0		/home/vietdu91/42_works/minishell
	\$> ifconfig   grep ":"			OK	OK	docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500 ether 02:42:27:cf:95:49 txqueuelen 0 (Ethernet) [...] \$>	0		
	\$> ifconfig   grep hola			OK	OK	\$>	1		
	\$> whoami   grep \$USER			OK	OK	vietdu91 \$>	0		
	\$> whoami   grep \$USER > /tmp/bonjour \$> cat /tmp/bonjour			OK	OK	vietdu91 \$>	0		
	\$> whoami   cat -e   cat -e > /tmp/bonjour \$> cat /tmp/bonjour			OK	OK	vietdu91\$\$ \$>	0		
	\$> whereis ls   cat -e   cat -e > /tmp/bonjour \$> cat /tmp/bonjour			OK	OK	ls: /usr/bin/ls /usr/share/man/man1/ls.1posix.gz /usr/share/man/man1/ls.1.gz\$\$ \$>	0		
	\$> ls   hola			OK	OK	bash: hola: command not found \$>	127		
	\$> ls   ls hola			OK	OK	ls: cannot access 'hola': No such file or directory \$>	2		
	\$> ls   ls   hola			OK	OK	bash: hola: command not found \$>	127		
	\$> ls   hola   ls			OK	OK	bash: hola: command not found crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		
	\$> ls   ls   hola   rev			OK	OK	bash: hola: command not found \$>	0		
	\$> ls   ls   echo hola   rev			OK	OK	aloh \$>	0		



=	&&	\$> echo hola && echo bonjour	NON GERE		OK	OK	hola bonjour \$>	0		[BONUS]
		\$> echo bonjour    echo hola	NON GERE		OK	OK	bonjour \$>	0		[BONUS]
		\$> echo bonjour && echo hola	NON GERE		OK	OK	bonjour hola \$>	0		[BONUS]
		\$> echo -n bonjour && echo -n hola	NON GERE		OK	OK	bonjourhola\$>	0		[BONUS]
		\$> pwd && ls && echo hola	NON GERE		OK	OK	/home/vietdu91/42_works/minishell crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c hola \$>	0		[BONUS]
		\$> pwd    ls && echo hola	NON GERE		OK	OK	/home/vietdu91/42_works/minishell hola \$>	0		[BONUS]
		\$> pwd && ls    echo hola	NON GERE		OK	OK	/home/vietdu91/42_works/minishell crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]
		\$> pwd    ls    echo hola	NON GERE		OK	OK	/home/vietdu91/42_works/minishell \$>	0		[BONUS]
		\$> ls    export ""	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]
		\$> export ""    ls	NON GERE		OK	OK	bash: export: `': not a valid identifier crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]
		\$> ls && export ""	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c bash: export: `': not a valid identifier \$>	1		[BONUS]
		\$> export "" && ls	NON GERE		OK	OK	bash: export: `': not a valid identifier \$>	1		[BONUS]
		\$> ls    ;	NON GERE		OK	OK	bash: syntax error near unexpected token `;'	2		[BONUS] Marche pour les metacharacters  &;()
		\$> ;    ls	NON GERE		OK	OK	bash: syntax error near unexpected token `;'	2		[BONUS] Marche pour les metacharacters  &;()
		\$> ls && ;	NON GERE		OK	OK	bash: syntax error near unexpected token `;'	2		[BONUS] Marche pour les metacharacters  &;()
		\$> ; && ls	NON GERE		OK	OK	bash: syntax error near unexpected token `;'	2		[BONUS] Marche pour les metacharacters  &;()
		\$> ls    <	NON GERE		OK	OK	bash: syntax error near unexpected token `newline'	2		[BONUS] Marche pour les metacharacters <>
		\$> ls && <	NON GERE		OK	OK	bash: syntax error near unexpected token `newline'	2		[BONUS] Marche pour les metacharacters <>
		\$> cat   echo    ls	NON GERE		OK	OK	\$>	0		[BONUS]
		\$> cat   echo && ls	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]
		\$> ls    cat   echo	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]
		\$> ls && cat   echo	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]
		\$> export "" && unset ""	NON GERE		OK	OK	bash: export: `': not a valid identifier	1		[BONUS]
		\$> (ls)	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]
		\$> ( ( ls ) )	NON GERE		OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0		[BONUS]

\$> ( ( ) ls )	NON GERE			OK	OK	bash: syntax error near unexpected token `)'' \$>	2	[BONUS]
\$> ls && (ls)	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c \$>	0	[BONUS]
\$> (ls && pwd)	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c /home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> ( ( ls&&pwd ) )	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c /home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> ( ( ls ) &&pwd )	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c /home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> (ls && ( ( pwd ) ) )	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c /home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> (ls && pwd) > hola \$> cat hola	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c /home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> > hola ls && pwd	NON GERE			OK	OK	/home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> > hola (ls && pwd)	NON GERE			OK	OK	bash: syntax error near unexpected token `('' \$>	2	[BONUS]
\$> (> pwd) \$> ls	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers pwd srcs test.c \$>	0	[BONUS]
\$> (< pwd) \$> ls	NON GERE			OK	OK	\$>	0	[BONUS] Si pwd existe
\$> (< pwd)	NON GERE			OK	OK	bash: pwd: No such file or directory \$>	1	[BONUS] Si pwd n'existe pas
\$> ( ( ( ( ( pwd ) ) ) ) )	NON GERE			OK	OK	/home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> () pwd	NON GERE			OK	OK	bash: syntax error near unexpected token `)'' \$>	2	[BONUS]
\$> > pwd (ls)	NON GERE			OK	OK	bash: syntax error near unexpected token `('' \$>	2	[BONUS]
\$> (ls  pwd)&&(ls  pwd)	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers pwd srcs test.c crashtest.c Docs Dockers Drawings Makefile minishell philosophers pwd srcs test.c \$>	0	[BONUS]
\$> (lss  pwd)&&(lss  pwd)	NON GERE			OK	OK	bash: lss: command not found /home/vietdu91/42_works/minishell bash: lss: command not found /home/vietdu91/42_works/minishell \$>	0	[BONUS]
\$> (lss&&pwd)&&(lss&&pwd)	NON GERE			OK	OK	bash: lss: command not found \$>	127	[BONUS]
\$> (ls && pwd   wc) > hola \$> cat hola	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c 1 1 34 \$>	0 0	[BONUS]

( PARENTHESIS	<pre>\$&gt; (ls &amp;&amp; pwd   wc) &gt; hola \$&gt; (ls &amp;&amp; pwd   wc) &gt; hola \$&gt; cat hola</pre>	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers srcs test.c 1 1 34 \$>	0 0 0		[BONUS]
	<pre>\$&gt; (ls &amp;&amp; pwd   wc) &gt;&gt; hola \$&gt; echo hey&amp;&amp;(ls &amp;&amp; pwd   wc) &gt; hola \$&gt; cat hola</pre>	NON GERE			OK	OK	hey \$> crashtest.c Docs [...] srcs test.c 1 1 34 crashtest.c Docs [...] srcs test.c 1 1 34 \$>	0 0 0		[BONUS]
	<pre>\$&gt; (pwd   wc) &lt; hola</pre>	NON GERE			OK	OK	\$> 1 1 34	0		[BONUS]
	<pre>\$&gt; (ls &amp;&amp; pwd   wc) &lt; hola</pre>	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers pwd srcs test.c 1 1 34 \$>	0		[BONUS]
	<pre>\$&gt; (ls -z    pwd   wc) &lt; hola</pre>	NON GERE			OK	OK	ls: invalid option -- 'z' 1 1 34 \$>	0		[BONUS]
	<pre>\$&gt; echo hey &gt; hola \$&gt; (pwd   wc) &lt; hola</pre>	NON GERE			OK	OK	\$> 1 1 34	0		[BONUS]
	<pre>\$&gt; echo hey &gt; hola \$&gt; (ls &amp;&amp; pwd   wc) &lt; hola</pre>	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers pwd srcs test.c 1 1 34 \$>	0		[BONUS]
	<pre>\$&gt; echo hey &gt; hola \$&gt; (ls -z    pwd   wc) &lt; hola</pre>	NON GERE			OK	OK	ls: invalid option -- 'z' 1 1 34 \$>	0		[BONUS]
	<pre>\$&gt; (ls -z    pwd &amp;&amp; ls)</pre>	NON GERE			OK	OK	ls: invalid option -- 'z' /home/vietdu91/42_works/minishell crashtest.c Docs Dockers Drawings Makefile minishell philosophers pwd srcs test.c \$>	0		[BONUS]
	<pre>\$&gt; ls    (cat Makefile grep srcs) &amp;&amp; (pwd wc)</pre>	NON GERE			OK	OK	crashtest.c Docs Dockers Drawings Makefile minishell philosophers pwd srcs test.c 1 1 34 \$>	0		[BONUS]
	<pre>\$&gt; ls -z &amp;&amp; (ls) &amp;&amp; (pwd)</pre>	NON GERE			OK	OK	ls: invalid option -- 'z' \$>	130		[BONUS]
	<pre>\$&gt; (ls &gt; Docs/hey &amp;&amp; pwd) &gt; hola \$&gt; cat hola \$&gt; cat Docs/hey</pre>	NON GERE			OK	OK	/home/vietdu91/42_works/minishell \$> crashtest.c Docs [...] srcs test.c \$>	0 0 0		[BONUS]
	<pre>\$&gt; ls &gt; Docs/hey &amp;&amp; pwd &gt; hola \$&gt; cat hola \$&gt; cat Docs/hey</pre>	NON GERE			OK	OK	/home/vietdu91/42_works/minishell \$> crashtest.c Docs [...] srcs test.c \$>	0 0 0		[BONUS]
	<pre>\$&gt; cd ../../ &amp;&amp; pwd &amp;&amp; pwd</pre>	NON GERE			OK	OK	/home/vietdu91/ /home/vietdu91/ \$>	0		[BONUS]
	<pre>\$&gt; (cd ../../ &amp;&amp; pwd) &amp;&amp; pwd</pre>	NON GERE			OK	OK	/home/vietdu91/ /home/vietdu91/42_works/minishell \$>	0		[BONUS]

\$> ls -z    cd ../../..&&pwd \$> pwd	NON GERE			OK	OK	ls: invalid option -- 'z' /home/vietdu91 \$> /home/vietdu91 \$>	0 0		[BONUS]
\$> ls -z    (cd ../../..&&pwd) \$> pwd	NON GERE			OK	OK	ls: invalid option -- 'z' /home/vietdu91 \$> /home/vietdu91/42_works/minishell \$>	0 0		[BONUS]
\$> echo hola > bonjour \$> cat bonjour				OK	OK	hola \$>	0 0		
\$> echo que tal >> bonjour \$> cat bonjour				OK	OK	hola que tal \$>	0 0		
\$> echo hola > bonjour \$> echo que tal >> bonjour \$> cat < bonjour				OK	OK	\$> \$> hola que tal \$>	0 0 0		
\$> echo hola > bonjour \$> rm bonjour \$> echo que tal >> bonjour \$> cat < bonjour				OK	OK	que tal \$>	0 0 0 0		
\$> echo hola que tal > bonjour \$> cat bonjour				OK	OK	hola que tal \$>	0 0		
\$> echo hola que tal > /tmp/bonjour \$> cat -e /tmp/bonjour				OK	OK	hola que tal\$ \$>	0 0		
\$> export HOLA=hey \$> echo bonjour > \$HOLA \$> echo \$HOLA				OK	OK	\$> hola \$>	0 0 0	Ne fait rien	
\$> whereis grep > Docs/bonjour \$> cat Docs/bonjour				OK	OK	grep: /usr/bin/grep /usr/share/man/man1/grep.1.gz /usr/share/man/man1/grep.1posix.gz /usr/share/info/grep. info.gz \$>	0 0		
\$> ls -la > Docs/bonjour \$> cat Docs/bonjour				OK	OK	total 16 drwx----- 2 vietdu91 [...] . drwxrwxewt 51 root [...] .. -rwxr-xr-x 8 vietdu91 [...] crashtest.c [...] \$>	0 0		
\$> pwd>bonjour \$> cat bonjour				OK	OK	/home/vietdu91/42_works/minishell \$>	0 0		
\$> pwd >                      bonjour \$> cat bonjour				OK	OK	/home/vietdu91/42_works/minishell \$>	0 0		
\$> echo hola > > bonjour				OK	OK	bash: syntax error near unexpected token `>' \$>	2		
\$> echo hola < < bonjour				OK	OK	bash: syntax error near unexpected token `<' \$>	2		
\$> echo hola >>> bonjour				OK	OK	bash: syntax error near unexpected token `>' \$>	2		
\$> > bonjour echo hola \$> cat bonjour				OK	OK	hola \$>	0 0		
\$> > bonjour   echo hola \$> cat bonjour				OK	OK	hola \$> \$>	0 0 0		
\$> prout hola > bonjour \$> ls				OK	OK	bash: prout: command not found \$> bonjour [...]	127 0	Erreur mais file "bonjour" cree tout de meme	
\$> echo hola > hello >> hello >> hello \$> ls \$> cat hello				OK	OK	\$> hello \$> hola \$>	0 0 0		
\$> echo hola > hello >> hello >> hello \$> echo hola >> hello \$> cat < hello				OK	OK	hola hola \$>	0 0 0		
\$> echo hola > hello >> hello >> hello \$> echo hola >> hello \$> echo hola > hello >> hello >> hello \$> cat < hello				OK	OK	hola \$>	0 0 0 0		
\$> echo hola >> hello >> hello > hello \$> echo hola >> hello \$> cat < hello				OK	OK	hola hola \$>	0 0 0		

<pre>\$&gt; echo hola &gt;&gt; hello &gt;&gt; hello &gt; hello \$&gt; echo hola &gt;&gt; hello \$&gt; echo hola &gt;&gt; hello &gt;&gt; hello &gt; hello \$&gt; cat &lt; hello</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; echo hola &gt; hello \$&gt; echo hola &gt;&gt; hello &gt;&gt; hello &gt;&gt; hello \$&gt; echo hola &gt;&gt; hello \$&gt; cat &lt; hello</pre>				OK	OK	<pre>hola hola hola \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; echo hola &gt; hello \$&gt; echo hey &gt; bonjour \$&gt; echo &lt;bonjour &lt;hello</pre>				OK	OK	<pre>\$&gt;</pre>	0 0 0		
<pre>\$&gt; echo hola &gt; hello \$&gt; echo hey &gt; bonjour \$&gt; echo &lt;hello &lt;bonjour</pre>				OK	OK	<pre>\$&gt;</pre>	0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; rm bonjour hello \$&gt; echo hola &gt; bonjour &gt; hello &gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; echo hola &gt; bonjour &gt; hello &gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; rm bonjour hello \$&gt; echo hola &gt; bonjour &gt;&gt; hello &gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; echo hola &gt; bonjour &gt; hello &gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; rm bonjour hello \$&gt; echo hola &gt; bonjour &gt; hello &gt;&gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; echo hola &gt; bonjour &gt; hello &gt;&gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; rm bonjour hello \$&gt; echo hola &gt;&gt; bonjour &gt; hello &gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; echo hola &gt;&gt; bonjour &gt; hello &gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; rm bonjour hello \$&gt; echo hola &gt;&gt; bonjour &gt;&gt; hello &gt;&gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; echo hola &gt;&gt; bonjour &gt;&gt; hello &gt;&gt; bonjour \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola hola \$&gt; hey \$&gt;</pre>	0 0 0 0 0		
<pre>\$&gt; &gt; bonjour echo hola bonjour \$&gt; cat bonjour</pre>				OK	OK	<pre>bonjour hola \$&gt;</pre>	0 0		
<pre>\$&gt; &gt;bonjour echo &gt; hola&gt;bonjour&gt;hola&gt;&gt;bonjour&gt;hola hey &gt;bonjour hola &gt;hola \$&gt; cat bonjour \$&gt; cat hola</pre>				OK	OK	<pre>\$&gt; \$&gt; hey hola \$&gt;</pre>	0 0 0 0		

<<< < REDIRECTIONS > >>>	<pre>\$&gt; echo bonjour &gt; hola1 \$&gt; echo hello &gt; hola2 \$&gt; echo 2 &gt;hola1 &gt;&gt; hola2 \$&gt; ls \$&gt; cat hola1 \$&gt; cat hola2</pre>				OK	OK	<pre>hola1 hola2 [...] \$&gt; \$&gt; hello 2 \$&gt;</pre>	0 0 0 0 0 0		
	<pre>\$&gt; echo bonjour &gt; hola1 \$&gt; echo hello &gt; hola2 \$&gt; echo 2 &gt;&gt;hola1 &gt; hola2 \$&gt; ls \$&gt; cat hola1 \$&gt; cat hola2</pre>				OK	OK	<pre>hola1 hola2 [...] \$&gt; bonjour \$&gt; 2 \$&gt;</pre>	0 0 0 0 0 0		
	<pre>\$&gt; &gt; pwd \$&gt; ls</pre>				OK	OK	<pre>pwd \$&gt;</pre>	0 0		
	<pre>\$&gt; &lt; pwd</pre>				OK	OK	<pre>bash: pwd: No such file or directory \$&gt;</pre>	1		
	<pre>\$&gt; &lt; Makefile .</pre>	NON GERE			OK	OK	<pre>.: not enough arguments \$&gt;</pre>	1		Voir pourquoi
	<pre>\$&gt; cat &lt;pwd</pre>				OK	OK	<pre>bash: pwd: No such file or directory \$&gt;</pre>	1		
	<pre>\$&gt; cat &lt;srcs/pwd</pre>				OK	OK	<pre>bash: srcs/pwd: No such file or directory \$&gt;</pre>	1		
	<pre>\$&gt; cat &lt;../pwd</pre>				OK	OK	<pre>bash: ../pwd: No such file or directory \$&gt;</pre>	1		
	<pre>\$&gt; cat &gt;&gt;</pre>				OK	OK	<pre>bash: syntax error near unexpected token `newline' \$&gt;</pre>	2		Marche aussi pour les autres operateurs de redirection
	<pre>\$&gt; cat &gt;&gt;&gt;</pre>				OK	OK	<pre>bash: syntax error near unexpected token `&gt;' \$&gt;</pre>	2		
	<pre>\$&gt; cat &gt;&gt; &lt;&lt;</pre>				OK	OK	<pre>bash: syntax error near unexpected token `&lt;&lt;' \$&gt;</pre>	2		
	<pre>\$&gt; cat &gt;&gt; &gt; &gt;&gt; &lt;&lt; &gt;&gt;</pre>				OK	OK	<pre>bash: syntax error near unexpected token `&gt;' \$&gt;</pre>	2		
	<pre>\$&gt; cat &lt; ls</pre>				OK	OK	<pre>bash: ls: No such file or directory \$&gt;</pre>	1		
	<pre>\$&gt; cat &lt; ls &gt; ls</pre>				OK	OK	<pre>bash: ls: No such file or directory \$&gt;</pre>	1		
	<pre>\$&gt; cat &gt; ls1 &lt; ls2 \$&gt; ls</pre>				OK	OK	<pre>bash: ls2: No such file or directory \$&gt; ls1 [...] \$&gt;</pre>	1 0		
	<pre>\$&gt; &gt;&gt;hola \$&gt; cat hola</pre>				OK	OK	<pre>\$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola &gt; bonjour \$&gt; cat &lt; bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola &gt;bonjour \$&gt; cat &lt;bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola&gt;bonjour \$&gt; cat&lt;bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola&gt; bonjour \$&gt; cat&lt; bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola          &gt;bonjour \$&gt; cat&lt;                bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola          &gt;    bonjour \$&gt; cat                &lt;    bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; cat &lt; srcs/bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola &gt;srcs/bonjour \$&gt; cat &lt;srcs/bonjour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo que tal &gt;&gt; bonjour \$&gt; cat &lt; bonjour</pre>				OK	OK	<pre>hola que tal \$&gt;</pre>	0 0 0		
	<pre>\$&gt; echo hola &gt; bonjour \$&gt; rm bonjour \$&gt; echo que tal &gt;&gt; bonjour \$&gt; cat &lt; bonjour</pre>				OK	OK	<pre>que tal \$&gt;</pre>	0 0 0 0		
	<pre>\$&gt; e'c'"h"o hola &gt; bonjour \$&gt; cat 'bo'"n"jour</pre>				OK	OK	<pre>hola \$&gt;</pre>	0 0		
	<pre>\$&gt; echo hola &gt; bonjour\ 1 \$&gt; ls \$&gt; cat bonjour\ 1</pre>	NON GERE			OK	OK	<pre>bonjour 1' [...] \$&gt; hola \$&gt;</pre>	0 0 0		



✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	<pre>\$&gt; echo hola &gt; bonjour hey \$&gt; ls \$&gt; cat bonjour \$&gt; cat hey</pre>				OK	OK	<pre>bonjour [...] \$&gt; hola hey \$&gt; cat: hey: No such file or directory \$&gt;</pre>	0 0 0 1		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;srcs/bonjour &gt;srcs/hello &lt;prout \$&gt; cat srcs/bonjour srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt;</pre>	0 0 1 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; rm srcs/bonjour srcs/hello \$&gt; &gt;srcs/bonjour &gt;srcs/hello &lt;prout \$&gt; ls srcs \$&gt; cat srcs/bonjour srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour hello \$&gt; \$&gt;</pre>	0 0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;srcs/bonjour &lt;prout &gt;srcs/hello \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; rm srcs/bonjour srcs/hello \$&gt; &gt;srcs/bonjour &lt;prout &gt;srcs/hello \$&gt; ls srcs \$&gt; cat srcs/bonjour</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour \$&gt; \$&gt;</pre>	0 0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; ../bonjour \$&gt; echo hey &gt; ../hello \$&gt; &gt;../bonjour &gt;../hello &lt;prout \$&gt; cat ../bonjour ../hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt;</pre>	0 0 1 0		
	<pre>\$&gt; echo hola &gt; ../bonjour \$&gt; echo hey &gt; ../hello \$&gt; rm ../bonjour ../hello \$&gt; &gt;../bonjour &gt;../hello &lt;prout \$&gt; ls .. \$&gt; cat ../bonjour ../hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour hello \$&gt; \$&gt;</pre>	0 0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; ../bonjour \$&gt; echo hey &gt; ../hello \$&gt; &gt;../bonjour &lt;prout &gt;../hello \$&gt; cat ../bonjour \$&gt; cat ../hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; ../bonjour \$&gt; echo hey &gt; ../hello \$&gt; rm ../bonjour ../hello \$&gt; &gt;../bonjour &lt;prout &gt;../hello \$&gt; ls .. \$&gt; cat ../bonjour</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour \$&gt; \$&gt;</pre>	0 0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;srcs/bonjour &gt;&gt;srcs/hello &lt;prout \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;&gt;srcs/bonjour &gt;srcs/hello &lt;prout \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour \$&gt; \$&gt;</pre>	0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;&gt;srcs/bonjour &gt;&gt;srcs/hello &lt;prout \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;srcs/bonjour &lt;prout &gt;&gt;srcs/hello \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
	<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;&gt;srcs/bonjour &lt;prout &gt;srcs/hello \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour \$&gt; hey \$&gt;</pre>	0 0 1 0 0		

<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &gt;&gt;srcs/bonjour &lt;prout &gt;&gt;srcs/hello \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
<pre>\$&gt; echo hola &gt; srcs/bonjour \$&gt; echo hey &gt; srcs/hello \$&gt; &lt;prout &gt;&gt;srcs/bonjour &gt;&gt;srcs/hello \$&gt; cat srcs/bonjour \$&gt; cat srcs/hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; bonjour \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; &lt;bonjour &gt;hello \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>hola \$&gt; &gt;&gt;</pre>	0 0 0 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; &gt;bonjour &gt;hello &lt; prout \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; \$&gt;</pre>	0 0 1 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; rm bonjour hello \$&gt; &gt;bonjour &gt;hello &lt; prout \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; \$&gt; \$&gt;</pre>	0 0 0 1 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; &gt;bonjour &lt;prout hello \$&gt; cat bonjour \$&gt; cat hello</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; hey \$&gt;</pre>	0 0 1 0 0		
<pre>\$&gt; echo hola &gt; bonjour \$&gt; echo hey &gt; hello \$&gt; rm bonjour hello \$&gt; &gt;bonjour &lt;prout hello \$&gt; cat bonjour</pre>				OK	OK	<pre>bash: prout: No such file or directory \$&gt; \$&gt; \$&gt;</pre>	0 0 0 1 0		Le fichier hello n'existe pas
<pre>\$&gt; echo hola &gt; bonjour \$&gt; &lt;bonjour cat   wc &gt; bonjour \$&gt; cat bonjour</pre>				OK	OK	<pre>0 0 0 \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; rm -f bonjour \$&gt; rm bonjour &gt; bonjour \$&gt; ls -l bonjour</pre>				OK	OK	<pre>ls: cannot access 'bonjour': No such file or directory \$&gt;</pre>	0 0 2		
<pre>\$&gt; export HOLA="bonjour hello" \$&gt; &gt;\$HOLA \$&gt; ls</pre>				OK	OK	<pre>'bonjour hello' [...] \$&gt;</pre>	0 0 0		
<pre>\$&gt; export HOLA="bonjour hello" \$&gt; &gt;"\$HOLA" \$&gt; ls</pre>				OK	OK	<pre>'bonjour hello' [...] \$&gt;</pre>	0 0 0		
<pre>\$&gt; export HOLA="bonjour hello" \$&gt; &gt;\$"HOLA" \$&gt; ls</pre>				OK	OK	<pre>HOLA [...] \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; export HOLA="bonjour hello" \$&gt; &gt;\$HOLA&gt;hey \$&gt; ls</pre>				OK	OK	<pre>'bonjour hello' hey [...] \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; export HOLA="bonjour hello" \$&gt; &gt;hey&gt;\$HOLA \$&gt; ls</pre>				OK	OK	<pre>'bonjour hello' hey [...] \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; export HOLA="bonjour hello" \$&gt; &gt;hey&gt;\$HOLA&gt;hey&gt;hey \$&gt; ls</pre>				OK	OK	<pre>'bonjour hello' hey [...] \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; export A=hey \$&gt; export A B=HOLA D E C="Que Tal" \$&gt; echo \$PROUT\$B\$C &gt; /tmp/a &gt; /tmp/b &gt; /tmp/c \$&gt; cat /tmp/a \$&gt; cat /tmp/b \$&gt; cat /tmp/c</pre>				OK	OK	<pre>\$&gt; \$&gt; \$&gt; HOLAQue Tal \$&gt;</pre>	0 0 0 0 0 0 0		
<pre>!!!! Contenu du fichier a : "Amour Tu es Horrible" !!!! Contenu du fichier b : "0123456789" !!!! Contenu du fichier c : "Prout"</pre>									
<pre>\$&gt; &lt;a cat &lt;b &lt;c</pre>				OK	OK	<pre>Prout \$&gt;</pre>	0		

<pre>\$&gt; &lt;a cat &lt;b &lt;c \$&gt; cat a \$&gt; cat b \$&gt; cat c</pre>				OK	OK	<pre>\$&gt; \$&gt; \$&gt; Amour Tu es Horrible 0123456789 Prout \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; &gt;a ls &gt;b &gt;&gt;c &gt;d \$&gt; cat a \$&gt; cat b \$&gt; cat c \$&gt; cat d</pre>				OK	OK	<pre>\$&gt; \$&gt; \$&gt; Prout \$&gt; crashtest.c Docs [...] test.c \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; &gt;a ls &gt;b &gt;&gt;c &gt;d \$&gt; cat a \$&gt; cat b \$&gt; cat c \$&gt; cat d</pre>				OK	OK	<pre>\$&gt; \$&gt; \$&gt; Prout \$&gt; crashtest.c Docs [...] test.c \$&gt;</pre>	0 0 0 0 0 0		
<pre>\$&gt; echo hola &gt; a &gt; b &gt; c \$&gt; cat a \$&gt; cat b \$&gt; cat c</pre>				OK	OK	<pre>\$&gt; \$&gt; \$&gt; hola \$&gt;</pre>	0		
<pre>\$&gt; mkdir dir \$&gt; ls -la &gt; dir/bonjour \$&gt; cat dir/bonjour</pre>				OK	OK	<pre>total 16 drwx----- 2 vietdu91 [...] . drwxrwxewt 51 root    [...] .. [...] \$&gt;</pre>	0		
<pre>\$&gt; &lt;a \$&gt; cat a</pre>				OK	OK	<pre>Amour Tu es Horrible \$&gt;</pre>	0		
<pre>\$&gt; &gt;d cat &lt;a &gt;&gt;e \$&gt; cat a \$&gt; cat d \$&gt; cat e</pre>				OK	OK	<pre>\$&gt; Amour \$&gt; Amour \$&gt;</pre>	0 0 0 0		
<pre>\$&gt; &lt; a &gt; b cat &gt; hey &gt;&gt; d \$&gt; cat d \$&gt; ls</pre>				OK	OK	<pre>Amour Tu Es Horrible \$&gt; [...] a b hey d</pre>	0 0 0		
<pre>\$&gt; cat &lt;&lt; hola</pre>				OK	OK	<pre>&gt; \$HOME &gt; hola /home/vietdu91 \$&gt;</pre>	0		
<pre>\$&gt; cat &lt;&lt; 'hola'</pre>				OK	OK	<pre>&gt; \$HOME &gt; hola \$HOME \$&gt;</pre>	0		
<pre>\$&gt; cat &lt;&lt; "hola"</pre>				OK	OK	<pre>&gt; \$HOME &gt; hola \$HOME \$&gt;</pre>	0		
<pre>\$&gt; cat &lt;&lt; ho"la"</pre>				OK	OK	<pre>&gt; \$HOME &gt; hola \$HOME \$&gt;</pre>	0		
<pre>\$&gt; cat &lt;&lt; \$HOME</pre>				OK	OK	<pre>&gt; prout &gt; /home/vietdu91 &gt; \$H0 &gt; \$HOME \$&gt;</pre>	0		
<pre>\$&gt; cat &lt;&lt; hola &gt; bonjour \$&gt; cat bonjour</pre>				OK	OK	<pre>&gt; prout &gt; croutte &gt; antoine pue &gt; hola \$&gt; prout croutte antoine pue</pre>	0		

HEREDOC	<pre>\$&gt; cat &lt;&lt; hola   rev</pre>			OK	OK	<pre>&gt; prout &gt; croutte &gt; antoine pue &gt; hola tuorp ettuorc eup eniotna \$&gt;</pre>	0	
	<pre>\$&gt; &lt;&lt; hola</pre>			OK	OK	<pre>&gt; chola &gt; holache &gt;   hola &gt; "hola" &gt; 'hola' &gt; hola \$&gt;</pre>	0	
	<pre>\$&gt; &lt;&lt;hola</pre>			OK	OK	<pre>&gt; &gt; hola \$&gt;</pre>	0	
	<pre>\$&gt; cat &lt;&lt;</pre>			OK	OK	<pre>bash: syntax error near unexpected token `newline' \$&gt;</pre>	2	
	<pre>\$&gt; cat &lt;&lt; prout &lt;&lt; lol &lt;&lt; koala</pre>			OK	OK	<pre>&gt; prout &gt; lol &gt; koala \$&gt;</pre>	0	
	<pre>\$&gt; prout &lt;&lt; lol &lt;&lt; cat &lt;&lt; koala</pre>			OK	OK	<pre>&gt; prout &gt; lol &gt; cat &gt; koala bash: prout: command not found</pre>	127	
	<pre>\$&gt; &lt;&lt; \$hola</pre>			OK	OK	<pre>&gt; \$hola \$&gt;</pre>	0	
	<pre>\$&gt; &lt;&lt; \$"hola"\$"b"</pre>			OK	OK	<pre>&gt; holab \$&gt;</pre>	0	
	<pre>\$&gt; &lt;&lt; \$"\$hola"\$"\$b"</pre>			OK	OK	<pre>&gt; \$hola\$\$b \$&gt;</pre>	0	
	<pre>\$&gt; &lt;&lt; ho\$la\$"a"\$"\$b"</pre>			OK	OK	<pre>&gt; hola\$a\$\$b &gt; ho\$la\$a\$\$nb \$&gt;</pre>	0	
	<pre>\$&gt; echo hola &lt;&lt;&lt; bonjour</pre>			OK	OK	<pre>hola \$&gt;</pre>	0	
	<pre>\$&gt; echo hola &lt;&lt;&lt;&lt; bonjour</pre>			OK	OK	<pre>bash: syntax error near unexpected token `&lt;' \$&gt;</pre>	2	
	<pre>\$&gt; echo hola &lt;&lt;&lt;&lt;&lt; bonjour</pre>			OK	OK	<pre>bash: syntax error near unexpected token `&lt;&lt;' \$&gt;</pre>	2	
WILDCARD	<pre>\$&gt; ls *</pre>	NON GERE		OK	OK	<pre>crashtest.c Docs Dockers Drawings Makefile minishell philosophers test.c  Docs: identite.pdf loyer.pdf srcs: main.c utils.c sort.c \$&gt;</pre>	0	[BONUS]
	<pre>\$&gt; ls *.*</pre>	NON GERE		OK	OK	<pre>crashtest.c test.c \$&gt;</pre>	0	[BONUS]
	<pre>\$&gt; ls *.hola</pre>	NON GERE		OK	OK	<pre>ls: cannot access '*.hola' : No such file or directory \$&gt;</pre>	2	[BONUS]
	<pre>\$&gt; cat M*le</pre>	NON GERE		OK	OK	<pre>[affiche le Makefile] \$&gt;</pre>	0	[BONUS]
	<pre>\$&gt; cat M*ee</pre>	NON GERE		OK	OK	<pre>cat: 'M*ee': No such file or directory</pre>	1	[BONUS]
	<pre>\$&gt; cat Make*file</pre>	NON GERE		OK	OK	<pre>[affiche le Makefile] \$&gt;</pre>	0	[BONUS]