Embedded Linux course - Filesystem and BusyBox

Total des points 3/10

Can you use a non empty directory as mount point? *	1/1
YesNo	✓
Commentaire Correct - It's fine to use a non empty directory as a mount point. Its contents will remain hidden as long as the mount point is active.	
What's the name of the kernel parameter to specify the root filesystem	? 0/1
setenv Bonnes réponses	×
root=	
Commentaire The answer is "root". Example: "root=/dev/mmcblk0p2" will instruct the kernel to try to mount the second partition of the first MMC/SD device as root filesystem.	



If you use an initramfs, do you need a filesystem driver in the static kernel? *	1/1
O Yes	
No	/
Commentaire True. An initramfs is a root filesystem in RAM, but it doesn't require a filesystem driver as a normal filesystem on block or flash storage would. It's because it's based on the file cache the lowest level Linux mechanism to manage files.	
X Is the /bin directory mandatory in an embedded Linux root filesystem? *	0/1
Yes	×
O No	
Bonne réponse	
● No	
Commentaire Wrong. The Linux kernel doesn't care about file names. However, you'll be deviating from the FHS standard that most people and programs expect. You may have to tweak some scripts and programs because of this.	
the FHS standard that most people and programs expect. You may have to tweak some	

	It's mandatory to have a shell interpreter in an embedded Linux root filesystem *	1/1
\bigcirc	True	
	False	/
Co bri	ommentaire orrect. You can have a filesystem with only binary programs. Mounting filesystems, inging up a network interface, and other things that are traditionnally done through shell mmands can also be done in C (for example).	
×	Can devtmpfs be automatically mounted when booting on an initramfs? *	0/1
•	Yes	<
\bigcirc	No	
Bonn	e réponse	
	No	
Со	ommentaire	
	rong. Booting on an initramfs, you have to explicitely mount devtmpfs on /dev, typically your system startup scripts. That's a limitation, but it's easy to overcome.	

		×
Boni	nes réponses	
ma	ke allnoconfig	
alln	oconfig	
	ommentaire	
y	hat's particularly convenient in BusyBox to select only the commands and options that ou need in your system. You can do that in Linux too, but you will for sure miss features nd drivers to support your hardware.	
×	To cross-compile BusyBox, you need to set the ARCH environment variable *	0/1
•	True	×
0	False	
Boni	ne réponse	
•	False	
	ommentaire	
С	rong. BusyBox has no architecture independent code that an ARCH setting would selec	ct

X BusyBox includes a tftp client and server *	0/1
○ True	
False	×
Bonne réponse	
True	
Commentaire	
Wrong. The corresponding BusyBox applets are "tftp" and "tftpd".	
X Busybox implements an ssh server *	0/1
True	×
○ False	
Bonne réponse	
False	
Commentaire	
Wrong. That need is addressed by the "Dropbear" project, which is good enough not to need BusyBox to fill this need. However, having an ssh server in BusyBox would simplify users' life, not having to cross-compile a separate package.	

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