Embedded Linux course - Kernel

Total des points 3/10

✓ What's the license of the Linux kernel? *	1/1
● GNU GPLv2	✓
GNU GPLv3	
Commentaire GNU GPLv2 is the correct answer. You have no obligation to allow users to run modif versions of the GPL software on the device.	ied
X Version 5.0 marks a noticeable milestone in Linux kernel developmen	nt * 0/1
True	×
False	
Bonne réponse	
False	
Commentaire	
Wrong. The number of changes between 4.20 and 5.0 is not substancially different fithe number of changes between 4.19 and 4.20. Increasing the version number to 5.0 just a way to highlight the amount of change that happened since 4.0, and to make 4 kernels look older.	was



✓ Who manages the Linux merge Window? *	1/1
Linus Torvalds	✓
Greg Kroah Hartmann	
Andrew Morton	
Commentaire After a release is made, Torvalds, being the kernel maintainer, is ready to accept ("merg changes for the next version during the "merge window". Once he closes the window, h will generally only accept bug fixes, but no new fixes.	
✓ If your hardware is fully supported and no feature is missing, it's your best interest to use: *	1/1
Mainline Linux from https://kernel.org	✓
Linux sources published by your System On Chip provider	
Commentaire Correct, at least in Bootlin's opinion, mainline Linux is best because it offers the guaran that your hardware will also be supported in the next kernel releases and that communisupport will be available too. With the vendor kernel, this probably won't happen.	

×	To upgrade from Linux 5.6.10 to 5.6.11, that's sufficient to apply the patch-5.6.11.xz patch *	0/1
	True	×
0	False	
Bon	ne réponse	
•	False	
V 0 T	ommentaire /rong. patch-5.6.11 contains all the changes between 5.6 and 5.6.11. Applying this patcl n 5.6.10 would try to re-apply all the patches from 5.6 and 5.6.10. o apply the 5.6.11 patch, you first have to revert to the original 5.6 release (applying the .6.10 patch backwards)	1
×	defconfig files contain *	0/1
	Default configuration settings for a given board or CPU family	×
0	Non default configuration settings for a given board or CPU family	
Bon	ne réponse	
•	Non default configuration settings for a given board or CPU family	
V	ommentaire Irong. defconfig files precisely only contain settings which value is different from its efault value. This way, only meaningful kernel parameters are stored in such files.	

× Mo	odprobe can be used to remove kernel modules *	0/1
○ Tr	rue	
● Fa	alse	×
Bonne r	éponse	
● Tru	ue	
Wron	mentaire ng. modprobe has a "-r" option to remove a module and its no longer needed ndencies.	
	ou can compile a kernel supporting two different ARM SoC families at e same time *	0/1
○ Tr	rue	
● Fa	alse	×
Bonne r	éponse	
● Tru	ue	
Wrong same	mentaire og. A binary kernel can support many different boards with different ARM CPUs at the te type (only 32 bit or 64 bit at the same time). Thanks to the device tree passed by the loader, the kernel knows what SOCs and devices are present and therefore should be lized.	е

X Kernel modules are mostly used in *	0/1
O Desktop and server Linux systems	
Embedded Linux systems	×
Bonne réponse	
Desktop and server Linux systems	
Commentaire Wrong. Kernel modules are mostly used in server and desktop systems, to reduce the softhe kernel that can support many different hardware devices and configurations. In embedded systems, especially dedicated ones with fixed hardware, you can easily do without kernel modules. Kernel modules are mostly useful for reducing boot time.	size
From the root user, you can modify module parameter values after module loading *	0/1
Always true	×
O Not always true	
Bonne réponse	
Not always true	
Commentaire Wrong. It's only possible to modify module parameter values after module loading if the allowed in the module source code.	at's

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