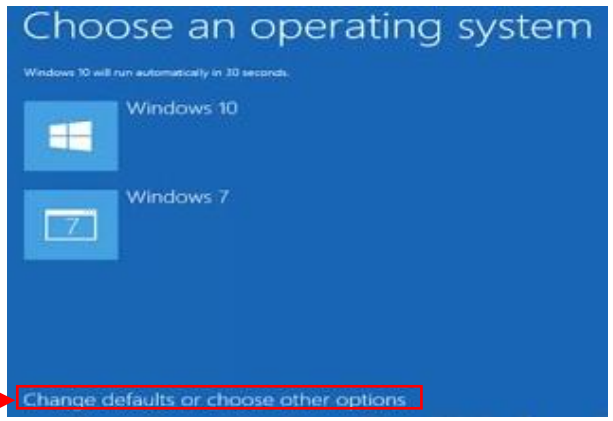
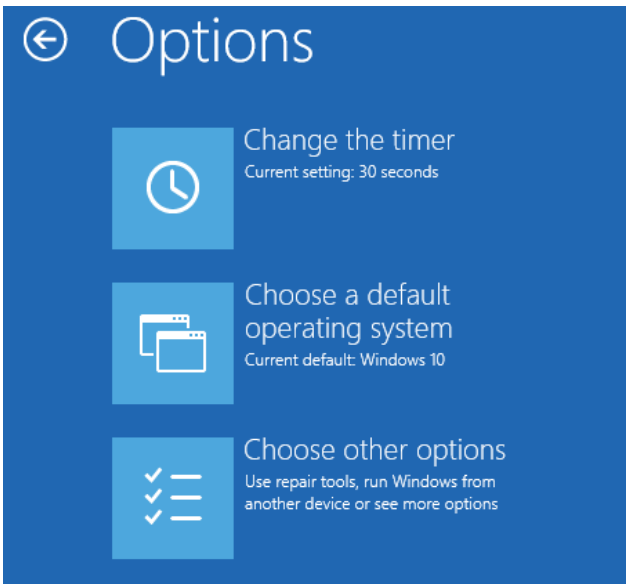
Create a document with screenshots to explain the answer for each exercise

1. Create a virtual machine with two operating systems, Windows 7 and Windows 10 (in this order). Choose Windows 7 as the default operating system, which will boot after 5 seconds unless Windows 10 is manually selected.

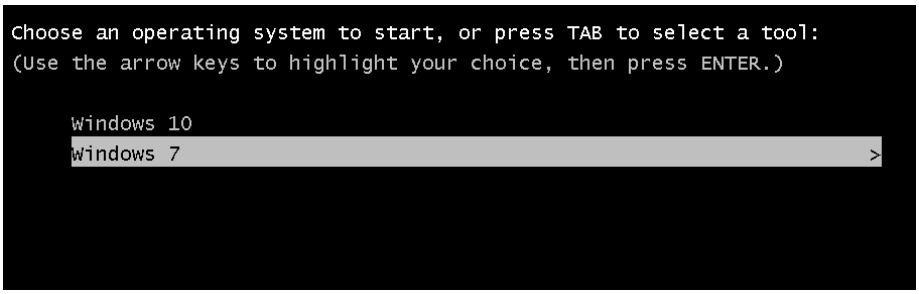
Firstly, install both operative systems (Windows 10 and 7). When the virtual machine is started it will appear:



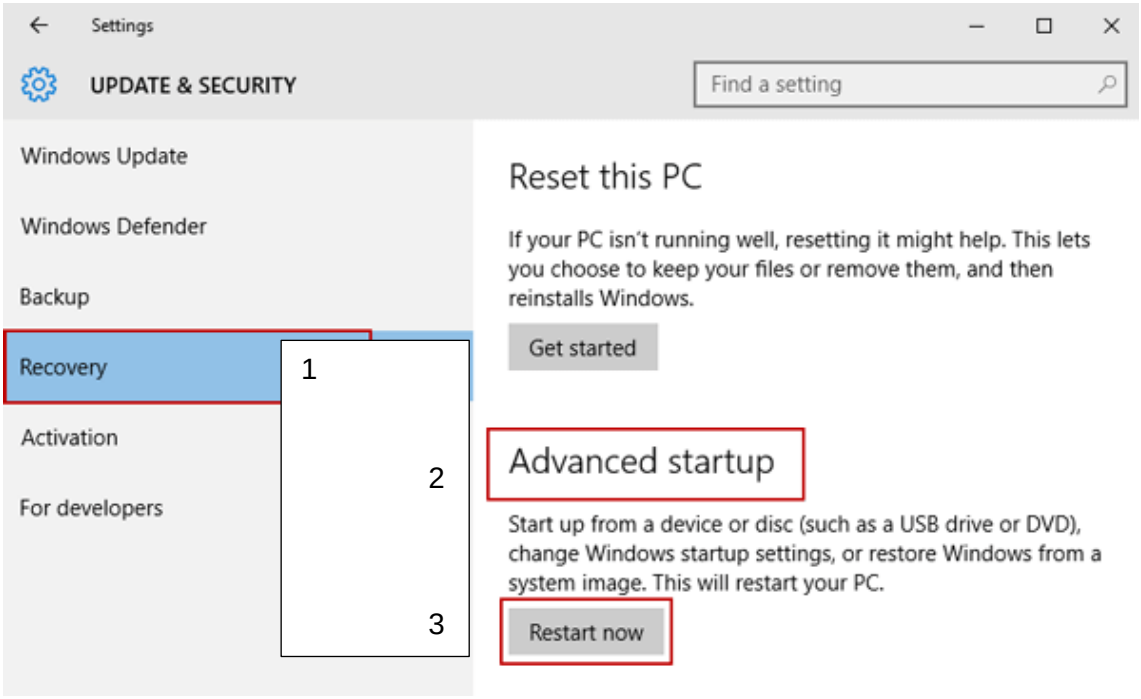
Now, select “Change defaults or choose other options”



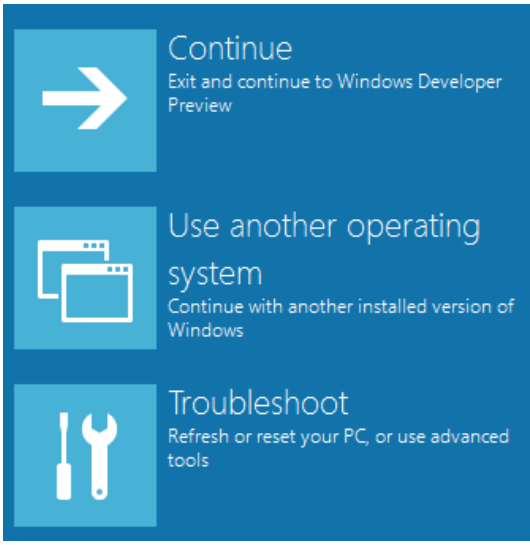
This is the menu after selecting Windows 7 as the default operative system.



To restore the UEFI Boot menu, we can access from “Settings”, “Update & Security” and “Recovery”



At the end, click “use another operating system” and chose windows 10 as the default operative system.



2. Create a virtual machine with two operating systems, Windows 7 (or Windows 10) and Ubuntu 16.04 (in this order) and configure the bootloader to:
    a. Set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu.
    b. Boot Ubuntu without displaying the menu after showing a 10 seconds countdown.
    c. Boot Ubuntu without displaying the menu.
    d. Boot Windows without displaying the menu.

A)

```
GRUB_DEFAULT=4
GRUB_TIMEOUT=15
GRUB_TIMEOUT_STYLE=menu
```

Then run 'update-grub'.

Now, type sudo nano /boot/grub/grub.cfg, because it's necessary for the other parts.

```
# set timeout_style=menu
# if [ "${timeout}" = 0 ]; then
#     set timeout=10
# fi
```

Or the best efficient option (but less safe) is to edit the line below in the file /etc/grub.d/30_os-prober

```
# adjust_timeout
```

B)

```
GRUB_DEFAULT=0
GRUB_TIMEOUT=10
GRUB_TIMEOUT_STYLE=countdown
```

C)

```
GRUB_DEFAULT=0
GRUB_TIMEOUT=0
GRUB_TIMEOUT_STYLE=hidden
```

D)

```
GRUB_DEFAULT=4
GRUB_TIMEOUT=0
GRUB_TIMEOUT_STYLE=hidden
```

3. If you lose the bootloader in exercise 2, use the tool “Boot-Repair”, which will let you solve the issue. If necessary, use the following the instructions in the URL: https://help.ubuntu.com/community/Boot-Repair

   - One option, and the easiest one, is getting a disk including the boot repair and boot on it.

   - Another option is to install the boot-repair in ubuntu

     - Either from an Ubuntu live-session or from your installed Ubuntu session
     - - connect to the Internet
     - - open a new Terminal, then type the following commands (press Enter after each line):
       - sudo add-apt-repository ppa:yannubuntu/boot-repair
       - sudo apt-get update
       - sudo apt-get install -y boot-repair && boot-repair

   - Using the boot repair:
     - Launch Boot-Repair from either :
       - The Dash (the Ubuntu logo at the top-left of the screen)
       - Or by typing 'boot-repair' in a terminal
     - Then click the "Recommended repair" button. When repair is finished, note the URL (paste.ubuntu.com/XXXXX) that appeared on a paper, then reboot and check if you recovered access to your OSs.
     - If the repair did not succeed, indicate the URL to people who help you by email or forum.

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