

Question 1:

```
yasmeen@yasmeen:~/ITI/Embedded_Linux/AdminLinux_2$ vi main.c
yasmeen@yasmeen:~/ITI/Embedded_Linux/AdminLinux_2$ gcc -o binary.exe main.c
yasmeen@yasmeen:~/ITI/Embedded_Linux/AdminLinux_2$ ./binary.exe
arr[5]={4,9,2,5,1}
5 is at index 3
```

Question 2:

```
yasmeen@yasmeen:~/ITI/Embedded_Linux/AdminLinux_2$ sudo cp binary.exe /usr/local
/bin
yasmeen@yasmeen:~/ITI/Embedded_Linux/AdminLinux_2$ cd ~
yasmeen@yasmeen:~$ binary.exe
arr[5]={4,9,2,5,1}
5 is at index 3
```

After copying the file in `usr/local/bin`, I can execute the file from anywhere on the system. Because the `usr/local/bin` is included in the `PATH` environment variable which means the system searches for any executable files located there without having to specify the full path.

```
yasmeen@yasmeen:~$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
```