

Name:.....

Q2

CS2123 Data Structures

Suppose that the below program is executed as follows.

> myprog abc xyz klm

First conceptually draw how the system represents the command line parameters in the memory and what values it passes to the below program. Then run the program and determine the output?

```
/* myprog.c */
#include <stdio.h>
main(int argc, char *argv[])
{
    int i=argc;
    while(--i > 0 ) {
        printf("A: %s \n", argv[i]);
    }
    while(--argc > 0 ) {
        printf("P: %s \n", *argv++);
    }
}
```

Output:

