

Name : _____

CS 100-002 Quiz #8

Give the output of the C program shown below when run with

`./a.out RICHARD NIXON 246 13`

```
#include <stdio.h>
#include <stdlib.h>

int print(char *ptr, int n) {
    for (int i=n; i>0; i=i/10)
        printf("(%c)", *(ptr+i%10));
    printf("\n");
}

int main(int argc, char **argv) {
    print(*(argv+1), atoi(*(argv+3)));
    print(*(argv+2), atoi(*(argv+4)));
    return 0;
}
```



Give the output of the C program shown below:

```
#include <stdio.h>
#include <stdlib.h>
char *function(char ch, int len) {
    char *str = malloc(sizeof(char)*(len+1));
    char *ptr=str;
    for (int a=0; a<len; a++) {
        *ptr = ch+a;
        ptr++;
    }
    *ptr = '\0';
    return str;
}

int main(void) {
    char *s1=function('r', 5);
    printf("s1=%s\n", s1);
    char *s2=function('I', 3);
    printf("s2=%s\n", s2);
    free(s1); free(s2);
    return 0;
}
```



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CS 100-002 Quiz #8

Give the output of the C program shown below when run with

`./a.out CRIMSON TIDE! 246 13`

```
#include <stdio.h>
#include <stdlib.h>

int print(char *ptr, int n) {
    for (int i=n; i>0; i=i/10)
        printf("(%c)", *(ptr+i%10));
    printf("\n");
}

int main(int argc, char **argv) {
    print(*(argv+1), atoi(*(argv+3)));
    print(*(argv+2), atoi(*(argv+4)));
    return 0;
}
```



Give the output of the C program shown below:

```
#include <stdio.h>
#include <stdlib.h>
char *function(char ch, int len) {
    char *str = malloc(sizeof(char)*(len+1));
    char *ptr=str;
    for (int a=0; a<len; a++) {
        *ptr = ch+a;
        ptr++;
    }
    *ptr = '\0';
    return str;
}

int main(void) {
    char *s1=function('i', 3);
    printf("s1=%s\n", s1);
    char *s2=function('R', 5);
    printf("s2=%s\n", s2);
    free(s1); free(s2);
    return 0;
}
```

