Predict the output of the following code. Assume we run the command as ./a.out BEEFFACE Pointers

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

void

foo(char str1[], char\* str2, char\* str){

    //test the sizeof operations

    printf("%d\n", (int)(sizeof(str1))); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%d\n", (int)(sizeof(str2))); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    //play with pointers

    char\* ptr = str;

    printf("%c\n", ptr[3] + 1); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    \*(ptr+4) = 'A';

    printf("%c\n", \*ptr++);\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%c\n", \*ptr--);\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%c\n", \*++ptr = \*(ptr+2) + 3); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%c\n", \*(ptr+2)); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%d\n", (ptr-str)); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%s\n", str); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

}

int

main(int argc, char\* argv[]){

    //test the sizeof operations

    char string[] = "ARMV7";

    printf("%d\n", (int)(sizeof(string))); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    //test the command line args

    printf("%d\n", argc); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%s\n", \*argv); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    printf("%s\n", \*(argv+1)); \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

    foo(string, string, \*(argv+1));  
}