DATA 160

80

55

135

145

175

90

95

115

125

85

140

What is the output of the C program shown below when run with the command ./a.out BBACA AU RMONSIC DTIE 010

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

int main(int argc, char *argv[]) {
  for (int a=1; a<argc; a++) {
    int len = strlen(argv[a]) - 1;
    int x = 0, y = len;
    while (x <= y) {
        if (x == y)
            printf("%c", argv[a][x]);
        else
            printf("%c%c", argv[a][y],argv[a][x]);
        x = x + 1;
        y = y - 1;
    }
    printf("\n");
}
return 0;
}</pre>
```

What is the output of the C program below when run with the command ./a.out DATA

```
#include <stdio.h>
#include <stdlib.h>
int main(int argc, char *argv[]) {
   FILE *fp = fopen(argv[1], "r");
    int num, data[5] = { 0 };
   fscanf(fp, "%d", &num);
   while ( !feof(fp) ) {
        if (num > 156) data[4]++;
        else if (num > 129) data[3]++;
        else if (num > 110) data[2]++;
        else if (num > 95) data[1]++;
        else if (num > 74) data[0]++;
       fscanf(fp, "%d", &num);
    for (int a=0; a<5; a++) {
        printf("%d : ", a+1);
        for (int b=0; b<data[a]; b++)</pre>
             printf("X");
       printf("\n");
    return 0;
```