QUIZ 10

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Question 1

Source Code:

```
4 int main(void){
      FILE* fp = NULL;
      int ARRAY_SIZE = 8;
      int evenNums[ARRAY_SIZE];
      printf("Opening file numbers.txt\n");
      fp = fopen("numbers.txt","w");
      if(fp == NULL){
          printf("Could not open numbers.txt\n");
      }
      fprintf(fp,"12 7 3 0 28 74 37 299\n");
      fclose(fp);
      fp = fopen("numbers.txt","r");
      if(fp == NULL){
          printf("Could not open numbers.txt\n");
      }
      for(int i = 0; i < ARRAY_SIZE;i++){</pre>
      fscanf(fp,"%d ", &evenNums[i]);
30 -
         for(int i = 0; i < ARRAY_SIZE;i++){</pre>
         fscanf(fp,"%d ", &evenNums[i]);
32
33
34
         fclose(fp);
         printf("\n");
35
         for(int i = 0; i < ARRAY_SIZE; i++){</pre>
         printf("%d ",evenNums[i]);
38
39
40
41
         return 0;
42 }
```

Output:

```
12 0 28 74
```

Question 2

Source Code:

```
int RaiseToPower(int baseVal, int exponentVal){
   int resultVal;

if (exponentVal == 0) {
    resultVal = 1;
   }

else {
    resultVal = baseVal * RaiseToPower(baseVal, exponentVal-1);
   }

return resultVal;

int main(void) {
   int userBase;
   int userBase;
   int userExponent;

scanf("%d", &userBase);
   scanf("%d", &userBase);
   print ("%d^%d = %d\n", userBase, userExponent, RaiseToPower(userBase, userExponent));

return 0;
}
```

Output:

```
12
2
12^2 = 144
```

Question 3

Source Code:

Output:

```
Enter a string: aryan is a good person
The length of "aryan" is: 5
```