

```
// Write program to print all the solutions for the given equations
//  $x^2 + y^2 < n$  Where x, y and n are all positive integers.
//
// Given n, print all the solutions, which satisfy the above equations
void print_solutions(int n) {
```

```
}
```

```
//
// return the 3rd word in the given sentence
//
// Note: allocate memory for the word and fill the word & return it.
//
char *third_word(char *s) {
```

```
}
```

```
// Given a character, find the closest vowel {a, e, i, o, u}.  
// In case of tie, return the smallest of both vowels.
```

```
char closest_vowel(char ch) {
```

```
}
```

```
// Invert the case for the given word  
void invert_case(char *word) {
```

```
}
```

```
// concat two string and return combined string  
// Note: don't modify the given strings, don't strcat function  
char *combined_string(char *str1, char *str2) {
```

```
}
```

```
// swap lastname
// e.g: "sai krisha", "muni varma" => "sai varma", "muni krishna"
// Note: both arrays have enough space to store as many characters as you want
void swap_lastname(char name1[], char *name2[]) {
```

```
}
```

```
// What is the output of this code
char c[] = "KAREMA-is-the-result-of-my-actions";
char *p = c;
printf("%s", p + p[3] - p[1]);
```