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

int isPalindrome(char *str) {
    int len = strlen(str);
    for (int i = 0; i < len / 2; i++) {
        if (str[i] != str[len - i - 1]) {
            return 0;
        }
    }
    return 1;
}

char* findFirstPalindromicString(char **words, int size) {
    for (int i = 0; i < size; i++) {
        if (isPalindrome(words[i])) {
            return words[i];
        }
    }
    return "";
}

int main() {
    char *words[] = {"hello", "level", "world"};
    int size = sizeof(words) / sizeof(words[0]);

    char *result = findFirstPalindromicString(words, size);
    printf("First palindromic string: %s\n", result);
```

```
First palindromic string: level
```

```c
#include <stdio.h>

int* calculateIndices(int* nums1, int n, int* nums2, int m) {
    int answer1 = 0, answer2 = 0;

    for (int i = 0; i < n; i++) {
        for (int j = 0; j < m; j++) {
            if (nums1[i] == nums2[j]) {
                answer1++;
                break;
            }
        }
    }

    for (int i = 0; i < m; i++) {
        for (int j = 0; j < n; j++) {
            if (nums2[i] == nums1[j]) {
                answer2++;
                break;
            }
        }
    }

    static int result[2];
    result[0] = answer1;
    result[1] = answer2;

    return result;
}
```

```
/usr/bin/ld: /usr/lib/gcc/x86_64-linux-gnu/11/../../../x86_64-linux-gnu/Scrt1.o: in
    function `_start':
(.text+0x1b): undefined reference to `main'
collect2: error: ld returned 1 exit status
```

```c
#include <stdio.h>

int distinctCount(int arr[], int start, int end) {
    
}

int sumOfSquares(int nums[], int size) {
    int result = 0;
    for (int i = 0; i < size; i++) {
        for (int j = i; j < size; j++) {
            result += distinctCount(nums, i, j) * distinctCount(nums, i, j);
        }
    }
    return result;
}

int main() {
    int nums[] = {1, 2, 3, 4, 5};
    int size = sizeof(nums) / sizeof(nums[0]);
    int sum = sumOfSquares(nums, size);
    printf("Sum of squares of distinct counts: %d\n", sum);
    return 0;
}
```

```
Sum of squares of distinct counts: 85425152
```

```c
int countPairs(int* nums, int numsSize, int k) {
    int count = 0;
    int freq[numsSize];
    memset(freq, 0, sizeof(freq));

    for (int i = 0; i < numsSize; i++) {
        freq[nums[i] % k]++;
    }

    for (int i = 0; i < numsSize; i++) {
        count += freq[nums[i] % k] - 1;
        freq[nums[i] % k]--;
    }

    return count;
}
```

```
/usr/bin/ld: /usr/lib/gcc/x86_64-linux-gnu/11/../../../x86_64-linux-gnu/Scrt1.o: in
    function `_start':
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```

javascript:void(0)

```c
#include <stdio.h>

int findMax(int arr[], int size) {
    int max = arr[0];
    for (int i = 1; i < size; i++) {
        if (arr[i] > max) {
            max = arr[i];
        }
    }
    return max;
}

int main() {
    int arr1[] = {1, 2, 3, 4, 5};
    int arr2[] = {7, 7, 7, 7, 7};
    int arr3[] = {-10, 2, 3, -4, 5};

    printf("Max in arr1: %d\n", findMax(arr1, 5));
    printf("Max in arr2: %d\n", findMax(arr2, 5));
    printf("Max in arr3: %d\n", findMax(arr3, 5));

    return 0;
}
```

```
Max in arr1: 5
Max in arr2: 7
Max in arr3: 5
```

```c
#include <stdio.h>

void swap(int* a, int* b) {
    int temp = *a;
    *a = *b;
    *b = temp;
}

int partition(int arr[], int low, int high) {
    int pivot = arr[high];
    int i = low - 1;

    for (int j = low; j < high; j++) {
        if (arr[j] < pivot) {
            i++;
            swap(&arr[i], &arr[j]);
        }
    }
    swap(&arr[i + 1], &arr[high]);
    return i + 1;
}

void quickSort(int arr[], int low, int high) {
    if (low < high) {
        int pi = partition(arr, low, high);
        quickSort(arr, low, pi - 1);
        quickSort(arr, pi + 1, high);
    }
}
```

```
Maximum element in the list: 64
```