Zadanie 1

Kod:

```
#include <stdio.h>
#define N 10
int main()
{
  int tab[N]={0,1,0,0,1,1,1,0,1,0};
  int i;
  int p, lp;
  printf("Podaj liczbe przesuniec\n");
  scanf("%d",&p);
  for (i=N-1; i>=0; i--)
  {
    printf("%d",tab[i]);
  }
  for (lp=0; lp<p; lp++)
  {
    for (int i=N-2; i>0; i--)
    {
        tab[i]=tab[i-1];
  }
  printf("\n");
```

```
for (i=N-1; i>=0; i--)
{
  printf("%d",tab[i]);
}

return 0;
}
```

Zadanie 2

Kod:

```
#include <stdio.h>

void swap(int *xp, int *yp)
{
    int temp = *xp;
    *xp = *yp;
    *yp = temp;
}

void sort(int arr[], int n)
{
    int i, j, min_idx;
    for (i = 0; i < n-1; i++)
    {</pre>
```

```
min_idx = i;
     for (j = i+1; j < n; j++)
       if (arr[j] < arr[min_idx])</pre>
        min_idx = j;
     swap(&arr[min_idx], &arr[i]);
  }
}
int main(){
 int arr[5];
 int counter[5];
 int len = 5;
 int i, j;
 printf("Elementy Tablicy: ");
 for (i = 0; i < len; i++) {
  scanf("%d", &arr[i]);
  counter[i] = -1;
 }
 sort(arr, len);
 for (i = 0; i < len; i++) {
  if (counter[i] == 0) continue;
  counter[i] = 1;
  for (j = i + 1; j < len; j++) {
    if(arr[i] == arr[j]) {
     counter[i]++;
     counter[j] = 0;
  }
 for (i = 0; i < len; i++) {
  if (counter[i] == 0) continue;
  printf("%d Element %d Wystąpien.\n", arr[i], counter[i]);
 }
 return 0;
```

Zadanie 3

```
main.c ×

1  #include <stdio.h>
2  #include <stdib.h:
3  #include <stdib.h:
4  **Standard **Standar
```

Kod:

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
void swap(int *xp, int *yp)
  int temp = *xp;
  *xp = *yp;
  *yp = temp;
}
void sort(int arr[], int n)
  int i, j, min_idx;
  for (i = 0; i < n-1; i++)
  {
     min_idx = i;
     for (j = i+1; j < n; j++)
      if (arr[j] < arr[min_idx])</pre>
        min_idx = j;
     swap(&arr[min_idx], &arr[i]);
  }
}
```

```
void randomArray(int arr[], int size)
  for(int i=0;i<size;i++)
     arr[i]=rand()%10;
}
void merge(int merged[], int arr1[], int arr2[], int arr1size, int arr2size, int arr3size)
  for(int i = 0; i < arr1size; i++)
        {
        merged[i] = arr1[i];
  for(int i = 0, j = arr1size; j < arr3size && i < arr2size; i++, j++)
                 merged[j] = arr2[i];
        }
}
void printArray(int arr[], int size)
  for (int i = 0; i < size; i++)
     printf("%d ", arr[i]);
  printf("\n");
int main()
  int arr1[2048];
  int arr1len;
  int arr2[2048];
  int arr2len;
  int arr3[2048];
  printf("Rozmiar Tablicy 1: ");
  scanf("%d", &arr1len);
  randomArray(arr1, arr1len);
  printf("Pierwsza Tablica: ");
  printArray(arr1, arr1len);
  printf("\n");
  printf("Rozmiar Tablicy 2: ");
```

```
scanf("%d", &arr2len);

randomArray(arr2, arr2len);

printf("Druga Tablica: ");
printArray(arr2, arr2len);

printf("\n");

int arr3len = (arr1len + arr2len);

merge(arr3, arr1, arr2, arr1len, arr2len, arr3len);

sort(arr3, arr3len);

printf("Wynik: ");

printArray(arr3, arr3len);

return 0;
}
```