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Laboratorium 11
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Zadanie 1
List.c:
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include "list.h"
                                                                      printf("%d\n", currentNode-
static Node_t * createNode(int head) {
                                                      >head);
        Node_t * node = (Node_t *)
malloc(sizeof(node));
                                                                      currentNode = currentNode-
                                                      >tail;}}
        node->head = head;
        node->tail = NULL;
                                                      Node_t * createList(unsigned int nodeCount,
        return node;
                                                      ...){
}void push(Node_t * root, int value) {
                                                         va_list args;
        Node_t * currentNode = root;
                                                         va_start(args , nodeCount);
        if (currentNode != NULL) {
                                                         Node_t * root;
               while (currentNode->tail !=
                                                         for(int i = 0; i < nodeCount; i++){</pre>
NULL)
                                                           int value = va_arg(args , int);
                       currentNode =
                                                           if(i == 0){
currentNode->tail;
               currentNode->tail =
                                                      root = createNode(value);}
createNode(value);}}
                                                      else {
void printList(Node_t * root) {
                                                             push(root,value);} }
        Node_t * currentNode = root;
                                                         va_end(args);
        while (currentNode != NULL) {
                                                         return root;}
```

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list.h:
                                                               // Print created list
                                                               printf("Created new list:\n");
#pragma once
                                                               printList(root);
#include "predicate.h"
                                                               return 0;
typedef struct Node {
       int head;
       struct Node * tail;
} Node_t;
Node_t * createList(unsigned int nodeCount,
...);
void printList(Node_t * root);
void push(Node_t * root, int value);
void removeIf(Node_t ** root, Predicate
predicate, int toCompare);
predicate.h:
#pragma once
#include <stdbool.h>
typedef bool (*Predicate)(int, int);
main.c:
#include <stdio.h>
#include "list.c"
int main() {
       // Create list
       const unsigned int nodeCount = 5;
        Node_t * root = createList(nodeCount,
2, 4, 6, 8, 10);
```