***A)GROUP WORK* LEADER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CODE WRITERS:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**A group consists of at least two members.**

***TASKS and ROLES***

**1. Each group member must be a LEADER once and a CODE WRITER once.**

**The LEADER's task *NB! It is forbidden to use global variables***

**1. Understand the task and, if necessary, supplement/correct it,** **design a general algorithm.**

**2. Create a MAIN function based on the algorithm with general descriptions of the necessary subtasks.(calls to functions and their prototypes).**

**3. Transfers, with explanations, the created MAIN function to the code writer.**

**CODE WRITER task**

**1. Analyze the received MAIN function and prototypes (if necessary, ask the MANAGER for an explanation).**

**2. Compile function codes.**

**3. Transfer the compiled functions to the MANAGER.**

**MANAGER and CODE WRITER together: test the result obtained. It is recommended to use initialization, control output of input data and debugging by function.**

**Write : TASK 1 enter the coordinates of the vertices of the polygon and find the shape circumference and the lengths of the lines.** **Boonus:find the area of the figure.**

**Write: TASK2 a program that introduces you to the star array;**

**subfunction 1: create letter array;**

**subfunction 2: sort the vowels and consonants from this array and print them on two separate lines;**

**the main program consists of calls to subfunctions.**

**Write: TASK4**

**a program that performs the exchange of the values of the row and column elements specified by the user in the array.**

**as two subfunctions: a printout from an array and a function from exchangeable vectors.**

**B) /\*koosta algoritm, lase AIl koostada algoritm, analüüsi..build an algorithm, let AI build an algorithm, analyze\*/**

**#include <stdio.h>**

**#define m 8 /\*muudetav...changeable\*/**

**#define n 5**

**int main(void) {int tr=0, abii = 0,abiij=0, i = 0, j = 0, arvv= 1,A[m][n];**

**if (n > 5) { printf(" number of rows 5\n");printf(" if the numbers have 2 digits 9"); return 0;}**

**while(tr){if(i == m - abii) { j = 0;while(j<n) {i=0;while(i<m){printf("%d ",A[i][j]); if (A[i][j] < 10) { printf(" "); }i++;}**

**j++; printf("\n");}return 0;}**

**while (i < m - abii) {A[i][j] = arvv; i++;}i--;j++;arvv++;**

**if(j == n-abij){j = 0; while(j<n){ i=0;while(i<m){printf("%d ",A[i][j]);if (A[i][j] < 10) {printf(" ");}i++;}j++;printf("\n");}**

**return 0;}while (j<n-abij) {A[i][j] = arvv;j++;}arvv++;i--;j--;if(i < abii){j = 0;while(j<n){i=0;while(i<m){printf("%d ",A[i][j]);**

**if (A[i][j] < 10) {printf(" ");}i++;}j++;printf("\n");}return 0;}while (i >= abii) {A[i][j] = arvv;i--;}arvv++;i++;j--;**

**if(j == abij) {j = 0;while(j<n){i=0;while(i<m){printf("%d ",A[i][j]);if (A[i][j] < 10) {printf(" ");}i++;}j++;printf("\n");}**

**return 0;}**

**while (j > abij){A[i][j] = arvv;j--;}j++;i++;abii++;abij++; arvv++;}**

**return 0;**

**}**