#define \_CRT\_SECURE\_NO\_WARNINGS

#include <stdio.h>

#define ERROR\_OPENING\_FILE 1

#define BUFFER\_SIZE 1024

#define MAX\_BODOVA 100

#include <stdlib.h>

#include <string.h>

typedef struct {

char ime[BUFFER\_SIZE];

char prezime[BUFFER\_SIZE];

int bodovi;

} Student;

int count\_rows(char\* filename);

void ispis(Student\* studenti, int brojStudenata);

Student\* upis(char\* filename, int brojStudenata);

int main()

{

char filename[] = "studenti.txt";

int brojStudenata = count\_rows(filename);

Student\* studenti = upis(filename, brojStudenata);

ispis(studenti, brojStudenata);

free(studenti);

}

int count\_rows(char\* filename)

{

FILE\* fp = NULL;

char buffer[BUFFER\_SIZE];

fp = fopen(filename, "r");

int row\_count = 0;

if (fp == NULL)

{

printf("Error opening file");

return ERROR\_OPENING\_FILE;

}

while (!feof(fp))

{

fgets(buffer, BUFFER\_SIZE, fp);

++row\_count;

}

fclose(fp);

return row\_count;

}

Student\* upis(char\* filename, int brojStudenata)

{

FILE\* fp = NULL;

Student\* studenti = (Student\*)malloc(brojStudenata \* sizeof(Student));

for (int i = 0; i < brojStudenata; i++)

{

fscanf(fp, "%s %s %d", studenti[i].ime, studenti[i].prezime, &studenti[i].bodovi);

}

fclose(fp);

return studenti;

}

void ispis(Student\* studenti, int brojStudenata)

{

for (int i = 0; i < brojStudenata; i++) {

double relativan\_br\_bodova = (studenti[i].bodovi / MAX\_BODOVA) \* 100.0;

printf("%s %s ima %d bodova, ?to je %.2f%%\n",

studenti[i].ime, studenti[i].prezime,

studenti[i].bodovi, relativan\_br\_bodova);

}

}