문제해결기법(13967005)

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Q1. Constrained Insertion with at least 5 different testset (p.26)

#define \_CRT\_SECURE\_NO\_WARNINGS// or scanf\_s

#include <stdio.h>

#include <math.h>

#include <stdlib.h>

#include <string.h>

#include <time.h>

#include <ctype.h>

#define TEST\_NUM 5

struct EMPLOYEE {

char RRN[14];//constraint , unique

char name[20];

float salary;// constraint , salary>bonus

float bonus;

} employee[1000];

int main() {

char TEST\_RRN[TEST\_NUM][14] = { {"0203693508127"},{"0203693508127"},{"0203693508128"},{"0223493508127"},{"1203693588127"} };

char TEST\_NAME[TEST\_NUM][20] = { {"Hanungjae"},{"choikim"},{"umjunsick"},{"KiM"},{"KIee"}};

float TEST\_SALARY[TEST\_NUM] = {2000,2200,2250,2030,2600};

float TEST\_BONUS[TEST\_NUM] = {1000,1500,2500,1800,1900};

int struct\_array\_num = 0;

for (int i = 0; i < TEST\_NUM;i++) {

printf("\_\_\_\_\_\_TEST\_NUM[%d]\_\_\_\_\_\_\n", i + 1);

printf("RRN : %s\n", TEST\_RRN[i]);

printf("NAME : %s\n", TEST\_NAME[i]);

printf("SALARY : %f\n", TEST\_SALARY[i]);

printf("BONUS : %f\n", TEST\_BONUS[i]);

int error = 0;

for (int k = 0; k < struct\_array\_num; k++) //unique\_test

{

if (TEST\_RRN[i][0] == employee[k].RRN[0]) {

int same = 0;

for (int r = 0; r < strlen(employee[k].RRN); r++) {

if (TEST\_RRN[i][r] == employee[k].RRN[r]) {

same++;

}

if (same == strlen(employee[k].RRN)) {

error++;

printf("ERROR : RRN[%s] IS SAME WITH RRN[%s]\n",TEST\_RRN[i], employee[k].RRN);

}

}

}

}

if (TEST\_SALARY[i] < TEST\_BONUS[i]) //bonus\_test

{

error++;

printf("ERROR : SALARY[%f] IS SMALL THAN BONUS[%f]\n", TEST\_SALARY[i], TEST\_BONUS[i]);

}

if (error==0) {

strcpy(employee[struct\_array\_num].RRN, TEST\_RRN[i]);

strcpy(employee[struct\_array\_num].name, TEST\_NAME[i]);

employee[struct\_array\_num].salary = TEST\_SALARY[i];

employee[struct\_array\_num].bonus = TEST\_BONUS[i];

struct\_array\_num++;

printf("INSERTION SUCCESS\n");

}

else {

printf("INSERTION FAILED\n");

}

}

return 0;

}텍스트이(가) 표시된 사진

자동 생성된 설명텍스트이(가) 표시된 사진

자동 생성된 설명