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COURSE - BSC IT - 2B

Q.1. Problem Question:

include < assert.h>
include < ctype.h>
include < limits.h>
include < math.h>
include < stdbool.h>
include < stdbool.h>
include < stdool.h>

include < stdint.h>

include < stdiv. h> # include < stdlib. h>

include < string. h>

char* readline();

char* strim (char*);

char* rtrim (char*);

char* split_string(char*);

int phase parse_int(char*);

int minimum average (int customers_scows, int customers_columns, int ** customers) {

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int main ()
                                   All still rep of oral
 FILE * +ptr =
topen (getenu ("OUTPUT_PATH"),"W");
 int n = parse_int(Itrim(rtrim(readline()));
int ** customers = malloc (n * size of (int *));
for (int i=0;i<n;i++){
   * (sustomers+i) = malloc (2 * (size of (int)));
 char * * customers_ item_lemp =
    Split_String ( rtrim ( readline ()));
  tor ( int j=0; j < 2; j++) {
   int customers_item = parse_int(*( uestomers_i +em_temp
                                          + j));
            1101/ == [1-100m] atah ]
    ((customers + i)+j) = customers_ilemo;
3
                                 resolutional rella
   int result = minimum Average (n, 2, customers);
   tprint (fptr, "% d\n", resutt).
                                           18/ Add 13/
   fclose (pptr);
  return o.
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Char * readline() {
Size_t.alloc_length = 1024;
Size -t data- length = 0;
char * data = malloc (alloc - length);
while: (bue) { the minter miss jani surry = 11 this
Char x cursor = data + data - length;
charx line = fgets ( wrsor, alloc_length-data_length,
                      Sternie (i+ stdin);
 ef (! line) {
                : ((() emillanes: 1 mission ) priss 2 - tilg 2
 break;
                            (14): 5 1, 10 = 1 the ) 30 +
  data_length + = strlen (cursor);
  if (data-length < alloc-length-111
          data [data _ length -1] == 1/n') {
                Eminal season states = (1+(1+ insumting))
     break;
   alloc_length 2< =1;
   data = realloc (data, alloc_length);
   4(1.data) {
    data = "\0";
    break;
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```

```
data [data-length-1] == (10);
    If [data[data-length-1] == 6/n°)
     data = realloc (data, data-length);
           if (! data) {
                                                                                                          chical remarkable of the Asian Is affect
                                                                                       The later of light of the manner of the manner.
} else {
        data = realloc (data, data-length +1);
                                                                               31((horas) pargazi E.D. 192 = < horas of the
     tf (! data) {
       data = "10";
    3 else {
        data[data-length]=6/0';
                                                                                             Cost the short of the state of 
      return data;
                                                                                                                                   et (! str) {
        return str;
                                                                                                                                                                  elipte ( token) f
                                                                                            spirit a reactor is public, significance
      while (* str!= "10" && issapace (* str)) {
            str++;
                                                                                                                                                      of Jestings, conference of
             return str;
                                                                                                                                                     Amishe
                                                                                                                                                        22/06/21
```

```
4(1 str) {
                          ist exist correct enist
 return (10);
 if (1 * str) {
  return str;
 char * end = stit strien (str) -1;
 while (end > = sty && isspace (xend)) {
  end --;
  *(end+1)=6/0";
                          total data-tengen I etal
  return str:
 char ** split_ String (char * str) {
                                     cetals, arrids
  Char * * splits = NULL;
 char * token = strtok ( str, 66; 9?); + + str sing the
                                      3(832 51)41
 int spaces = 0;
                                    table neutro
 while (token) &
                                        Than the s
 splits = realloc (splits, size of (char *) * ++spaces);
                             901 (0/) FARSE X 45 (0)
  G(! splits) &
                                        : 44 4 1/2
  neturn splits;
```

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Splits[spaces-1] = loken; loken = Strtok (NULL, " "); return splits; 3 mistages mustant 1500 int parse_ int (char * str) { char* endptr; int value = stated strated (str, & endptr, 10); if cendptr == str 11 x endptr ; = 610°) { exit (EXIT_FAILURE); of Jea. gmstij, i, a. For Jan. In St for 3 : [ri] pt return value; : esta . teme feet? : lold to Fold Lolding (++1;115);(=1):16 while and the brooks and a feeling 为自此意。正对为中,"各种事件之际 (+4) = 70 1/2 0-10 /0-1 (1. Eptasi; 0= 1310) Arushe 22/06/21