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```
# include <assert.h>
# include <ctype.h>
# include <limits.h>
# include <math.h>
# include <stdbool.h>
# include <stddef.h>
# include <stdint.h>
# include <stdio.h>
# include <stdlib.h>
# include <string.h>

char* readline();
char* ltrim(char*);
char* rtrim(char*);
char** split_string(char*);

int parse_int(char*);

/*
* Complete the 'minimumAverage' function below.
*
```

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```
* The function is expected to return an INTEGER.
* The function accepts 2D integer INTEGER_ARRAY customers.
Columns, int** customers) {

}

int main()
{
  FILE* fptr = fopen(getenv("OUTPUT_PATH"), "w");

  int n = parse_int(ltrim(rtrim(readline())));

  int** customers = malloc(2 * (sizeof(int)));

  char** customers_item_temp = split_string(rtrim(readline()));

  for (int j = 0; j < 2; j++) {

    int customers_item = parse_int(*(customers_item_temp + j));

    *((customers + i) + j) = customers_item;

  }

}

  int result = minimumAverage(n, 2, customers);

  fprintf(fptr, "%d\n", result);

  fclose(fptr);

  return 0;

}

  char* readline() {

    size_t alloc_length = 1024;

    size_t data_length = 0;
```

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```
char* data = malloc(alloc_length);
while(true){
char* cursor = data + data_length;
char* line = fgets(cursor, alloc_length - data_length, stdin);
if(!line){
    break;
}
data_length += strlen(cursor);
if(data_length < alloc_length-1 || data[data_length-1] ==
'\n'){
    break;
}
char* split_string(char* str){
char** splits = NULL;
char* token = strtok(str," ");
int spaces = 0;
while(token){
splits = realloc(splits, sizeof(char*) * ++spaces);
if(!splits);
{
splits[spaces-1] = token;
token = strtok(NULL," ");
}
return splits;
}
```

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```
int parse_int (char* str){
  char** endptr;
int value = strtol(str, &endptr, 10);
if (endptr == str || *endptr != '\0'){
    exit (EXIT_FAILURE);
}
  return value;
}
```

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02/06/21