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BSIT - 2 'A'

Ans 1

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

char* headline();
char* ltrim(char*);
char* rtrim(char*);
int parse_int(char*);

int main()
{
    file * fptr = fopen("output - (ATH)", "w");
    int n = parse_int(ltrim(rtrim(headline())));
    int** customers = malloc(n * size of (int*));
    for (int i = 0; i < n; i++)
    {
        * (customers + i) = malloc(n * size of (int*));
        for (int j = 0; j < n; j++)
        {
            * (customers + i) = malloc(2 * (size of (int)));
            char** customers_item_temp = split_string(ltrim(rtrim(headline())));
            for (int k = 0; k < 2; k++)
```



```

    } int customers - item = passc - int ( * customers - item temp; j)
      ((customers + i) + j) = (customers - item; } }
    int result = minimum Average (n, 2, customers);
    f printf ( fpts, "%d\n", result);
    fclose ( fpts);
    return 0;
}
char = readline ();
size_t alloc - length = 1024;
size_t data length = 0;
char * data = malloc (alloc - length);
while (true)
{ char * cursor = data + data - length;
  char * line = fgets (cursor, alloc - length - data - length, stdin);
  if (!line)
    { break; }
  if (data - length < alloc - length - 1) [data - length - 1] = '\n'
    { break; }
  alloc - length <= 1;
  data = realloc (data, alloc - length);
  if (!data)
    data = '\0';
    break;
}
}
if (data [data - length - 1] == '\n') {
  data [data - length - 1] = '\0'; } }

```



```
else  
{ data = realloc (data, data - length + 1);
```

```
if (!data)
```

```
{ data = '\0';
```

```
} else {
```

```
data[data - length] = '\0';
```

```
}
```

```
}
```

```
return data;
```

```
}
```

```
char * trim (char * str)
```

```
{ if (!str) {
```

```
return '\0';
```

```
}
```

```
while (*str != '\0' & isspace (*str)) {
```

```
str++;
```

```
}
```

```
return str;
```

```
}
```

```
while (*str != '\0' &
```

```
char * trim (char * str) {
```

```
if (!str) {
```

```
return '\0';
```

```
}
```

```
if (!*str) {
```

```
return str;
```

```
}
```

```
char * ind = str + strlen (str) - 1;
```

```
while (ind >= str & isspace (*ind)) {
```

```
ind--;
```



```

* (end+1) = '\0';
return str;
}
char ** split - string (char * str)
{
    char ** splits = NULL;
    char * token = strtok(str, " ");

    int space = 0;
    while (token) {
        splits = realloc(splits, size of (char *) * ++spaces);
        if (!splits) {
            return splits;
        }
        splits[spaces-1] = token;
        token = strtok(NULL, " ");
    }
    return splits;
}

int parse - int (char * str) {
    char * end ptr;
    int value = atoi(str, &endptr, 10);
    if (end ptr == str || *endptr != '\0') {
        exit (Exit - Failure);
    }
    return value;
}

```

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