Сборка

```
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ make clean
rm -rf main.o temp_api.o report
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ make
gcc  -c  -std=c99 -Wall -o main.o main.c
gcc -c  -std=c99 -Wall   -c -o temp_api.o temp_api.c
gcc -o report main.o temp_api.o
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$
```

Запуск программы без опций

```
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ ./report


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This is a simple temperature statistic program (v1.3).
To get help use the key -h.


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```

Запуск программы с опцией «-h»

```
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ ./report -h
Supported arguments:
-h                              -- help
-f <filename.csv>               -- .csv file to load. show statistics for all months by the year
-f <filename.csv> -m <month>    -- show statistics for target <month>
-v                              -- version
```

Запуск программы с опцией «-f»

```
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ ./report -f temperature_small.csv -m 13

Please enter the correct month

alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ ./report -f temperature_small.csv -m 8

String №4 data format not supported. Skip.

String №9 data format not supported. Skip.

String №11 data format not supported. Skip.

String №14 data format not supported. Skip.

====================STATISTICS BY MONTH====================

year      month       average_temp        min_temp        max_temp
-----     ----------  ------------        ----------      ----------
2021      August          20.0°C            20°C            20°C
```

```
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ ./report -f temperature_small.csv

String №4 data format not supported. Skip.

String №9 data format not supported. Skip.

String №11 data format not supported. Skip.

String №14 data format not supported. Skip.

====================STATISTICS BY MONTH FOR THE YEAR====================

year      month       average_temp        min_temp        max_temp
-----     ----------  ------------        ----------      ----------
2021      January         -44.7°C           -47°C           -43°C
2021      February        -27.5°C           -30°C           -25°C
2021      March           -10.0°C           -10°C           -10°C
2021      April             0.0°C             0°C             0°C
There is no valid data for May
2021      June             25.0°C            25°C            25°C
There is no valid data for July
2021      August           20.0°C            20°C            20°C
2021      September         18.0°C            18°C            18°C
There is no valid data for October
2021      November          -5.0°C            -5°C            -5°C
2021      December         -20.0°C           -20°C           -20°C

====================STATISTICS FOR THE YEAR====================

average_temp    min_temp    max_temp
------------    --------    --------
    -4.9°C        -20°C        25°C
```

```
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ ./report -f temperature_big.csv

====================STATISTICS BY MONTH FOR THE YEAR====================

year     month        average_temp      min_temp      max_temp
-----    ----------   ------------      ----------    ----------
2021     January        0.3°C              1°C           30°C
2021     February       0.3°C              1°C           30°C
2021     March          0.3°C              1°C           30°C
2021     April          0.3°C              1°C           30°C
2021     May            0.3°C              1°C           30°C
2021     June           0.3°C              1°C           30°C
2021     July           0.3°C              1°C           30°C
2021     August         0.3°C              1°C           30°C
2021     September      0.3°C              1°C           30°C
2021     October        0.3°C              1°C           30°C
2021     November       0.3°C              1°C           30°C
2021     December       0.3°C              1°C           30°C


====================STATISTICS FOR THE YEAR====================

average_temp     min_temp    max_temp
------------    ----------   --------
    0.3°C           1°C         30°C
```

```
alexander@User-PC:/mnt/d/2025_MFTI/MIPT/base_C/temp_api$ ./report -f temperature_big.csv -m 1

====================STATISTICS BY MONTH====================

year     month        average_temp      min_temp      max_temp
-----    ----------   ------------      ----------    ----------
2021     January        0.3°C              1°C           30°C
```

Скорректированный для отладки файл temperature_small.csv

```
temperature_small.csv
 1    2021;01;16;01;01;-47
 2    2021;01;16;01;03;-44
 3    2021;01;16;01;04;-43
 4    2021;01;16;01;05;-xx
 5    2021;02;16;01;01;-25
 6    2021;02;17;01;01;-30
 7    2021;03;16;01;01;-10
 8    2021;04;16;01;01;0
 9    2021;xx;16;01;01;10
10    2021;06;16;01;01;25
11    2021;07;xx;01;01;30
12    2021;08;16;01;01;20
13    2021;09;16;01;01;18
14    2021;10;16;xx;01;2
15    2021;11;16;01;01;-5
16    2021;12;16;01;01;-20
```