

בס"ד

הרצת קלט בגודל 100:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
● aharonbal23@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exe1/5$ make
gcc -Wall -pg -c main.c -o main.o
gcc -Wall -pg -o main main.o
● aharonbal23@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exe1/5$ ./main 3 100
2746
2746
2746
● aharonbal23@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exe1/5$ gprof main
Flat profile:

Each sample counts as 0.01 seconds.
no time accumulated

% cumulative self self total
time seconds seconds calls Ts/call Ts/call name
0.00 0.00 0.00 10300 0.00 0.00 max
0.00 0.00 0.00 100 0.00 0.00 randInRange
0.00 0.00 0.00 1 0.00 0.00 maxSubArray1
0.00 0.00 0.00 1 0.00 0.00 maxSubArray2
0.00 0.00 0.00 1 0.00 0.00 maxSubArray3

%
time the percentage of the total running time of the
program used by this function.

cumulative a running sum of the number of seconds accounted
seconds for by this function and those listed above it.

self the number of seconds accounted for by this
seconds function alone. This is the major sort for this
listing.

calls the number of times this function was invoked, if
this function is profiled, else blank.

self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
else blank.

total the average number of milliseconds spent in this
ms/call function and its descendants per call, if this
function is profiled, else blank.

name the name of the function. This is the minor sort
for this listing. The index shows the location of
the function in the gprof listing. If the index is
in parenthesis it shows where it would appear in
the gprof listing if it were to be printed.

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Call graph (explanation follows)
```

הרצת קלט בגודל 1000:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
● aharonbal23@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exe1/5$ make
gcc -Wall -pg -c main.c -o main.o
gcc -Wall -pg -o main main.o
● aharonbal23@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exe1/5$ ./main 3 1000
25042
25042
25042
● aharonbal23@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exe1/5$ gprof main
Flat profile:

Each sample counts as 0.01 seconds.

% cumulative self self total
time seconds seconds calls ms/call ms/call name
100.00 0.38 0.38 1 300.00 300.00 maxSubArray1
0.00 0.38 0.00 1003000 0.00 0.00 max
0.00 0.38 0.00 1000 0.00 0.00 randInRange
0.00 0.38 0.00 1 0.00 0.00 maxSubArray2
0.00 0.38 0.00 1 0.00 0.00 maxSubArray3

%
time the percentage of the total running time of the
program used by this function.

cumulative a running sum of the number of seconds accounted
seconds for by this function and those listed above it.

self the number of seconds accounted for by this
seconds function alone. This is the major sort for this
listing.

calls the number of times this function was invoked, if
this function is profiled, else blank.

self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
else blank.

total the average number of milliseconds spent in this
ms/call function and its descendants per call, if this
function is profiled, else blank.

name the name of the function. This is the minor sort
for this listing. The index shows the location of
the function in the gprof listing. If the index is
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Call graph (explanation follows)
```

הרצת קלט בגודל 10000:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
● aharonba123@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exel/5$ make clean
rm -f *.o gmon.out main
● aharonba123@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exel/5$ make
gcc -Wall -pg -c main.c -o main.o
gcc -Wall -pg -o main main.o
● aharonba123@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exel/5$ ./main 3 10000
241928
241928
241928
● aharonba123@aharon:~/Desktop/H.W/Semester_B/Operating_Systems/exel/5$ gprof main
Flat profile:

Each sample counts as 0.01 seconds.
%   cumulative   self   total    name
time  seconds    seconds calls  s/call  s/call  name
99.91    351.05    351.05      1    351.05    351.15 maxSubArray1
 0.06     351.26    0.21 100030000    0.00    0.00 max
 0.02     351.32    0.06             0.00    0.00 _init
 0.01     351.35    0.03      1    0.03    0.13 maxSubArray2
 0.00     351.35    0.00    10000    0.00    0.00 randInRange
 0.00     351.35    0.00      1    0.00    0.00 maxSubArray3

%           the percentage of the total running time of the
time        program used by this function.

cumulative  a running sum of the number of seconds accounted
seconds    for by this function and those listed above it.

self        the number of seconds accounted for by this
seconds     function alone. This is the major sort for this
           listing.

calls       the number of times this function was invoked, if
           this function is profiled, else blank.

self        the average number of milliseconds spent in this
ms/call     function per call, if this function is profiled,
           else blank.

total       the average number of milliseconds spent in this
ms/call     function and its descendents per call, if this
           function is profiled, else blank.

name        the name of the function. This is the minor sort
           for this listing. The index shows the location of
           the function in the gprof listing. If the index is
           in parenthesis it shows where it would appear in
           the gprof listing if it were to be printed.

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