gcc

```
# pull the gcc image
docker pull gcc

# running a container
docker run gcc gcc -v

# move to the dicrectory where the file is
cd Documents/c-project/matrix

ll
# -rw-r--r--   1 pietropoluzzi  staff   824B  7 Apr 15:53 int-matrix.c

# compile a .c file
docker run -v $(pwd):/usr/src/myapp -w /usr/src/myapp gcc gcc -o int-
matrix int-matrix.c

ll
# -rwxr-xr-x   1 pietropoluzzi  staff    16K  7 Apr 16:10 int-matrix
# -rw-r--r--   1 pietropoluzzi  staff   824B  7 Apr 15:53 int-matrix.c

# execute this file: run it within the container (it won't run locally
on OS)
docker run -v $(pwd):/usr/src/myapp -w /usr/src/myapp gcc ./int-matrix

# 10         50         20         70         30         60
# 11         59         23         74         31         65
# 19         54         27         72         36         68
# 14         51         28         75         33         69
```

Let's simplify it with a `Makefile`:

```
# move to the dicrectory where the file is
cd Documents/c-project/matrix

touch Makefile
# edit the file like below
cat Makefile
```

```
int-matrix : int-matrix.c
        gcc -o int-matrix int-matrix.c
clean :
        rm int-matrix
```

```
matrix % docker run -v $(pwd):/usr/src/myapp -w /usr/src/myapp gcc make
# gcc -o int-matrix int-matrix.c

docker run -v $(pwd):/usr/src/myapp -w /usr/src/myapp gcc ./int-matrix
# 10         50         20         70         30         60
# 11         59         23         74         31         65
# 19         54         27         72         36         68
# 14         51         28         75         33         69

docker run -v $(pwd):/usr/src/myapp -w /usr/src/myapp gcc make clean
# rm int-matrix
```