Docker Notes

COPY -> copy files and directories
ADD -> 2 additional feature over COPY (add from url and uncompress zip files)
It's better to use COPY over ADD because there is not magic around it

RUN -> build time instruction
CMD -> run time instruction
CMD npm start   # Shell form
CMD ["npm", "start"]   # Exec form

It's better to use exec form because we can execute this command directly and there is no need to spin up another shell process, also this makes it easier and faster to clean up resources when you stop containers.

ENTRYPOINT ["npm", "start"]   # Exec form
ENTRYPOINT npm start   # Shell form
EntryPoint VS CMD: It's harder to overwrite EntryPoint(we should use --entrypoint)
ENTRYPOINT: in practical terms, we often want to use entryPoint, when we know for sure that this is the command or this is the program that should be executed. whenever we start a container
CMD: in contrast, with the CMD structure, we have a bit more flexibility, we can always overwrite this. so we want to use this instruction for executing ad hoc commands in a container.

Speeding up Builds: Organize your docker file such that the instructions that don't change frequently should be on top and the instructions or files that change frequently should be down the bottom.

$ docker image prune   # delete all dangling images
$ docker container prune   # delete all the stopped containers