

SEM 3\Exp9\Makefile

```
1  # Compiler to use
2  CC = gcc
3
4  # Compiler flags
5  CFLAGS = -Wall -Wextra -g
6
7  # Object files to compile
8  OBJS = main.o Bucket_Sort.o counting_sort.o Heap_Sort.o Merge_Sort.o Radix_sort.o
9
10 # The final executable name
11 TARGET = Exp9_sorting_program
12
13 # Default target to build the executable
14 all: $(TARGET)
15
16 # Rule to link object files into the final executable
17 $(TARGET): $(OBJS)
18     $(CC) -o $(TARGET) $(OBJS)
19
20 # Rule to compile each .c file into a .o file
21 %.o: %.c
22     $(CC) $(CFLAGS) -c $<
23
24 # Clean target to remove object files and the executable
25 clean:
26     rm -f $(OBJS) $(TARGET)
27
```