GREEDY ALGORITHMS

PROBLEM 3:

3-G-BURGER PROBLEM

AIM:

A person needs to eat burgers. Each burger contains a count of calorie. After eating the burger, the person needs to run a distance to burn out his calories. If he has eaten i burgers with c calories each, then he has to run at least $3^i * c$ kilometers to burn out the calories. For example, if he ate 3 burgers with the count of calorie in the order: [1, 3, 2], the kilometers he needs to run are $(3^0 * 1) + (3^1 * 3) + (3^2 * 2) = 1 + 9 + 18 = 28$. But this is not the minimum, so need to try out other orders of consumption and choose the minimum value. Determine the minimum distance he needs to run. Note: He can eat burger in any order and use an efficient sorting algorithm. Apply greedy approach to solve the problem.

CODE:

```
arr[y] = t;
      }
    }
  }
  for(int b = 0; b < a; b++) {
    t = (int)pow(3, b);
    sum += t * arr[b];
  }
  // Print the result
  printf("%d\n", sum);
  return 0;
}
INPUT:
TEST CASE 1
3
1
            2
      3
TEST CASE 2
3
5
      10
            7
OUTPUT:
18
76
```