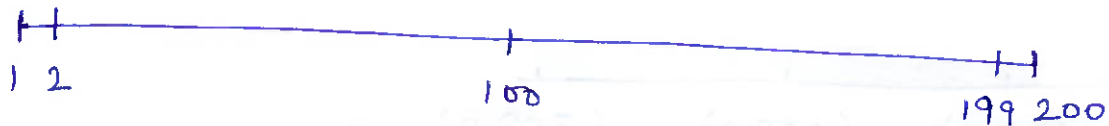## Problem 1:

For a program "Cube" which takes y as I/P and prints cube of y as O/P. The range of y is from 1 to 200.

Solution:

Its BVA would be achieved as:

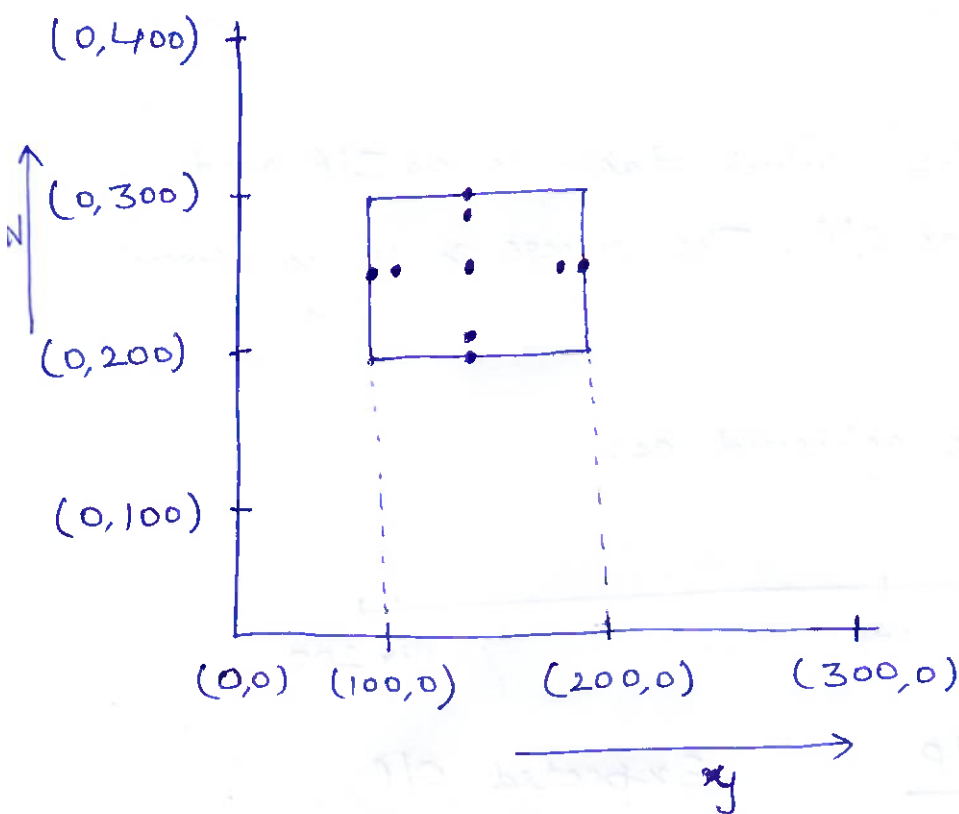| Test Case	I/P	Expected O/P
1.	1	1
2.	2	8
3.	100	10,00,000
4.	199	78,80,599
5.	200	80,00,000

Problem 2:

For a program "Multiplication" with two inputs y and z with range of both as:

$$100 \leq y \leq 200$$
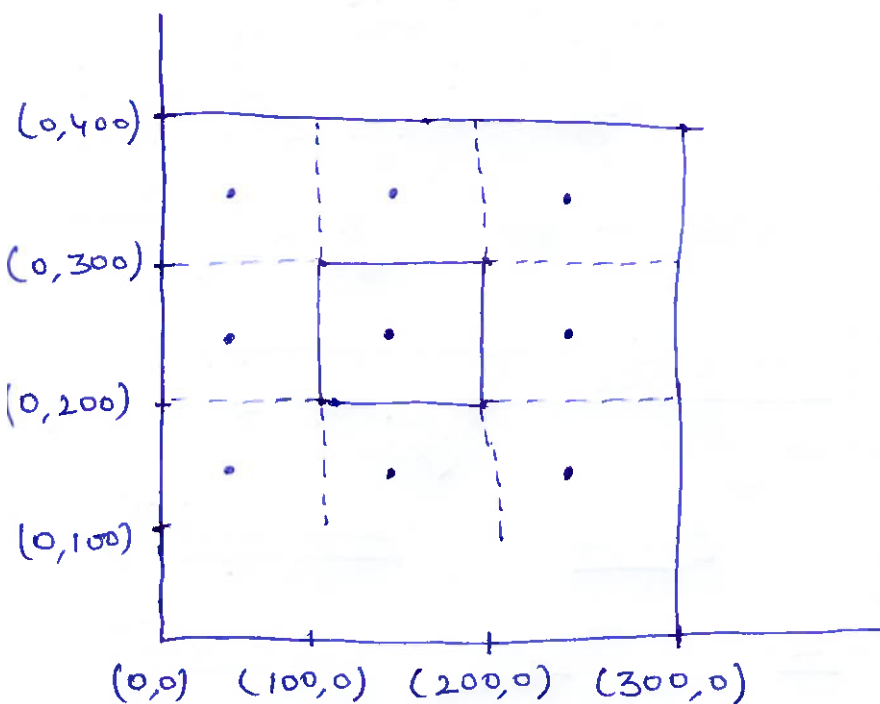$$200 \leq z \leq 300$$

Solution:

Test Case	y	z	Expected O/P
1.	150	200	30,000
2.	150	201	30,150
3.	150	250	37,500
4.	150	299	44,850
5.	150	300	45,000
6.	100	250	25,000
7.	101	250	25,250
8.	199	250	49,750
9.	200	250	50,000

Equivalence Class Testing

EC for same problem (Problem 2 discussed in BVA)
can be drawn as :

Test Case	Y	Z	Expected Output
1.	103	200	20,600
2.	60	150	Invalid Input
3.	160	140	Invalid Input
4.	265	160	Invalid Input
5.	70	210	Invalid Input
6.	75	310	Invalid Input
7.	110	320	Invalid Input
8.	220	250	Invalid Input
9.	275	325	Invalid Input