BASIL ALI KHAN
20K-0477
SECTION F

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# ASSIGNMENT # 01

## Q#1

⇒ Each student solved three problems

$20 \times 3 = 60$

⇒ Every problem was solved by exactly two students.

$$\frac{60}{2} = 30$$

## Q#2.

Total numbers of players = 4.

Each tournament prize distribution:

First place : $4000 Total Money = 35K.

Second place : $2000 Each Match prize = ~~35~~ 7K

Third place : $1000 Number of tournament = 5 matches.

Prize received by players after all tournament.

Player 1 : $13000

Player 2 : $10000

Player 3 : $7000

Player 4 : $5000

player 1 $13000 can be divided into
$4K, $4K, $4K, $1K, $0K.

player 2 $10000 can be divided into
$2K, $2K, $2K, $2K, $2K.

player 3 $7000 can be divided into
$1K, $1K, $0K, $1K, $1K.

player 4 $5000 can be divided into.
$0K, $0K, $0K, $0K $4K

Total 5 matches were played.

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Q#3

Yes we can.

Q#4

(a)

Total Number of Banks = 10

Money in each Bank = $10.

Day 1:

2 Bank

10 - 1 = 9 Banks.

Day 2:

2 Banks

9 - 1 = 8 Banks.

Day 3:

2 Banks.

8 - 1 = 7 Banks

Day 4:

2 Banks

7 - 1 = 6 Banks.

Day 5:

2 Banks.

6 - 1 = 5 Banks.

Day 6:

2 Banks

5 - 1 = 4 Banks

Day 7:

2 Banks

4 - 1 = 3 Banks.

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Day 8:

2 Banks

3 - 1 = 2 Banks

Day 9:

2 Banks

2 - 1 = 1 Bank

Total Days need to move money in one account is 9 days.

(3)

Money in 1 Bank account = $10

Total Number of Bank = 10

Total money = $100

Each transfer of Money charges = $1

Total Number of operation = 9.

Total charges = $9.

Total money = $100 - $9

= $91

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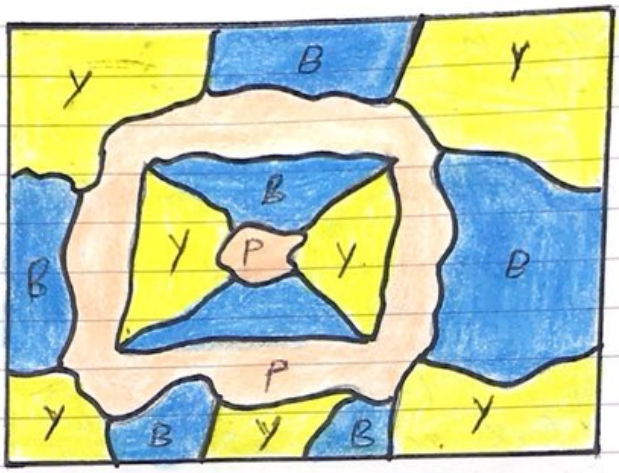
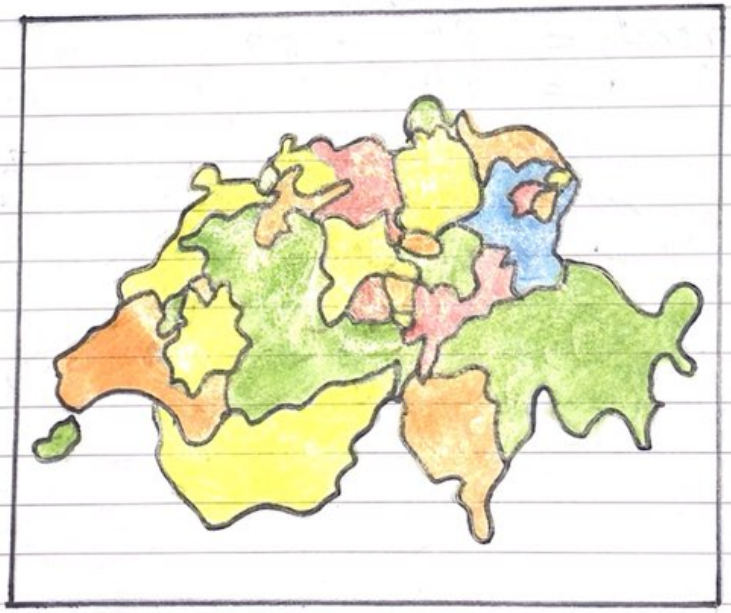
Q#5

(a)




(b)



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(c)