

# Stack'em Up

## Program:

```
#include <bits/stdc++.h>
using namespace std;

int shuff[100][53], card[53];

void change(int n) {
    static int tmp[53], i;
    for(i = 1; i <= 52; i++)
        tmp[i] = card[shuff[n][i]];
    for(i = 1; i <= 52; i++)
        card[i] = tmp[i];
}

void print() {
    static char num[][10] = {"Ace", "2", "3", "4", "5", "6", "7", "8", "9", "10",
"Jack", "Queen", "King"};
    static char suit[][10] = {"Clubs", "Diamonds", "Hearts", "Spades"};
    static int i;
    for(i = 1; i <= 52; i++) {
        printf("%s of %s\n", num[card[i]%13], suit[(card[i]-1)/13]);
    }
}

int main()
{
    int t, n;
    int i, j, k;
    char line[50];
    scanf("%d", &t);
    while(t--)
    {
        scanf("%d", &n);
        for(k = 1; k <= n; k++)
        {
            for(i = 1; i <= 52; i++)
            {
                scanf("%d", &shuff[k][i]); // for 2,1    2: [1][1]    1: [1][2]
            }
        }
        for(i = 1; i <= 52; i++)
            card[i] = i;
        gets(line);
    }
}
```

```

        while(gets(line)) {
            if(line[0] == '\\0') break;
            sscanf(line, "%d", &n);
            change(n);
        }
        print();
        if(t)
            puts("");
    }
    return 0;
}

```

## Output:

```

1
2
2 1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 52 51
52 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 1
1
2

King of Spades
2 of Clubs
4 of Clubs
5 of Clubs
6 of Clubs
7 of Clubs
8 of Clubs
9 of Clubs
10 of Clubs
Jack of Clubs
Queen of Clubs
King of Clubs
Ace of Clubs
2 of Diamonds
3 of Diamonds
4 of Diamonds
5 of Diamonds
6 of Diamonds
7 of Diamonds

```

8 of Diamonds  
9 of Diamonds  
10 of Diamonds  
Jack of Diamonds  
Queen of Diamonds  
King of Diamonds  
Ace of Diamonds  
2 of Hearts  
3 of Hearts  
4 of Hearts  
5 of Hearts  
6 of Hearts  
7 of Hearts  
8 of Hearts  
9 of Hearts  
10 of Hearts  
Jack of Hearts  
Queen of Hearts  
King of Hearts  
Ace of Hearts  
2 of Spades  
3 of Spades  
4 of Spades  
5 of Spades  
6 of Spades  
7 of Spades  
8 of Spades  
9 of Spades  
10 of Spades  
Jack of Spades  
Queen of Spades  
Ace of Spades  
3 of Clubs