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Standard University

Standard University conducts an exam. For this, the question papers for a class of 7 students are prepared. On every sheet, the roll number of student who has to attempt the paper is written. First student gets all the sheets and searches for the sheet containing his roll number. He takes the sheet and passes all other sheets to the next student. Next student repeats the process and it continues till the time last student gets the sheet.

The students are sitting as per the roll number from 1 to 7. The sheets are not ordered and the sequence is given as input. When one student gets the sheet, all other sheets are shifted. Hence the index of each sheet changes. You have to print the indexes from which each student will get his sheet.

Write a recursive method `sheet(int sheets[7], int curroll, int max)` for this.

Main Function is written for this.

```
int main()
```

```
{
```

```
int i;
```

C (gcc 4.8.3) ▼



▶ Compile & Run

O/P »

```

1  #include<stdio.h>
2  void sheet(int sheets[7], int currRoll, int max)
3  {
4      currRoll = 1;
5      // process all 1-7 roll numbers
6      while(currRoll <= 7){
7
8          // step 1 : find at what index is 'currRoll' stored in 'sheets' array
9          int i;
10         for(i=0; i < 7; i++){
11             if(sheets[i] == currRoll){
12                 printf("%d ",i);
13                 break;
14             }
15         }
16
17         // step2 : left shift all elements after index 'i' of sheets.
18         i = i+1;
19         for(; i<7; i++){
20             sheets[i-1] = sheets[i];
21         }
22
23         currRoll++;
24     }
25 }
26
27 int main(){
28     int i;
29     int a[7];
30     for(i=0; i < 7; i++)
31         scanf("%d",&a[i]);
32     sheet(a,1,7);
33     return 0;
34 }
35
36
```

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