```
*********Program 26.c ******************************
//split into non-intersecting squares..
#include<stdio.h>
#include<stdlib.h>
int main() {
  int d = 2;
  int s = d * d;
  int a[s][s];
  int m[s + 1];
  int i, j, k, ni, nj, x;

  for (i = 0; i < s; i++) {
    for (j = 0; j < s; j++) {
       scanf("%d", &a[i][j]);
    }
  }

  for (i = 0; i < s; i = i + d) {  //step level - d
    for (j = 0; j < s; j = j + d) { //step level - d

      for (k = 0; k <= s; k++) {   //initiaze the flag array to 0
         m[k] = 0;
      }
      for (ni = i; ni < i + d; ni++) {
         for (nj = j; nj < j + d; nj++) {
            x = a[ni][nj];
            m[x] = 1;
         }
      }

      for (k = 1; k <= s; k++) {
        if (m[k] != 1) {
          printf("No\n");
          printf("Failed at submatrix at %d row and %d col \n", i,j);
          exit(1);
        }
      }

    }
  }

  printf("Yes\n");

}
*********Program 27.c ******************************
//sorting using selection sort....
#include<stdio.h>
int main() {
  int n = 6;
  int a[] = {-1, 20, 50, 2, 40, -5};
  int i, j, k;
  int min, t;

  //print after every iteration..
  printf("It(0): ");
  for (k = 0; k < n; k++) {
    printf("%d ", a[k]);
  }
    printf("\n");
  for (i = 0; i < n; i++) {
    min = i;
    for (j = i+1; j < n; j++) {
```

```
      if (a[min] > a[j]) {
        min = j;
      }
    }
    t = a[i];  //store a[i] into a temp.
    a[i] = a[min]; //copy a[min] to a[i]
    a[min] = t;  //copy temp to a[min]

    //print after every iteration..
    printf("It(%d): ",i+1);
    for (k = 0; k < n; k++) {
      printf("%d ", a[k]);
    }
    printf("\n");
  }
}
```