```
SECTIONAL GROUP:
                                            DISCUSSION GROUP:
MATRICULATION NO:
                      (Write your matriculation number
                      legibly using a PEN.)
                                                              TOTAL
                                                              MARKS
                    2.
                                               \mathbf{C}
1.
      A
                          D
                                                                    \mathbf{E}
                         6. [2 marks]
5. [4 marks]
                                                   7. [3 marks]
   0 0.50
                            251
                                                      -20 30 160
   1 0.00
8. [3 marks]
   M1: arr[i] > 0
   M2: arr[i] > 0
   M3: 0
9. [4 marks]
   void printSquare(int k){
       int i,j;
       for (i=0; i<k; i++){
            if (i==0 | | i==k-1){
                 for (j=0; j<k; j++)
                     printf("*");
            } else {
                 printf("*");
                 for (j=1; j<k-1; j++)
                     printf(" ");
                 printf("*");
            printf("\n");
        }
```

10. a) Write your algorithm in the box below

[5 marks]

10. b) Write your code in the box below

[5 marks]

```
int which_day(int types[], int days){
  int collected[TOY_TYPE] = {0};
  int remaining = TOY_TYPE;
  int i;

for (i = 0; i < days; i++){
   if ( (i+1) % 2 == 1 && collected[types[i]-1] == 0){
      collected[types[i]-1] = 1;
      remaining--;
   }

  if (remaining == 0)
      return i + 1;
}

return -1;</pre>
```