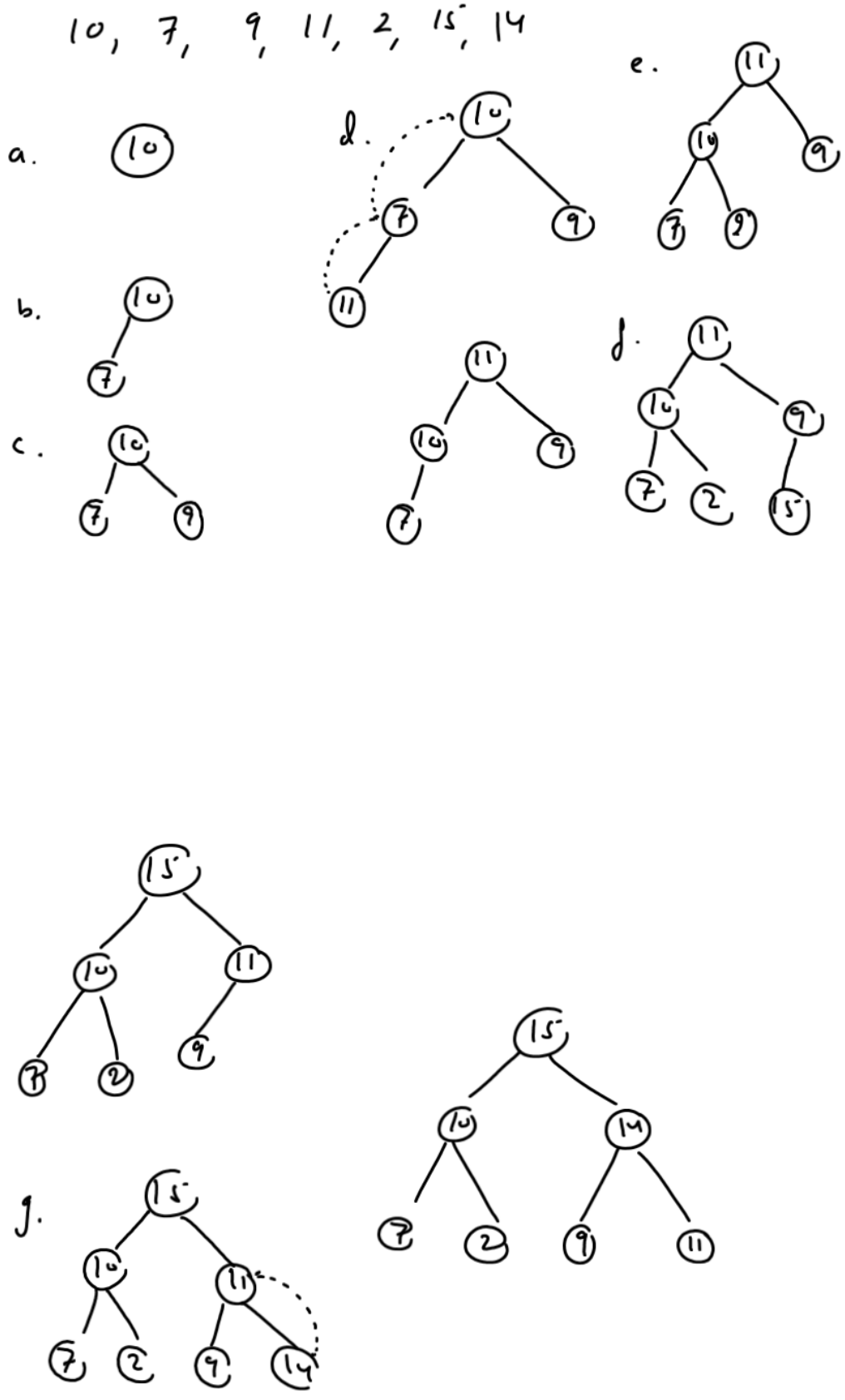
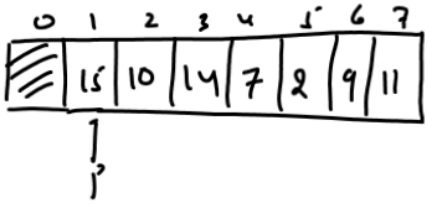
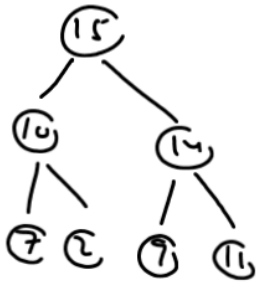
# HEAP



```
void ins_heap(int [],int,int);
int main()
{
   int arr[8];
   int i,n;
   for(i=1;i<=7;i++)
   {
      printf("Enter no:");
      scanf("%d",&n);
      ins_heap(arr,i,n);
    }
    printf("Heap is:");
    for(i=1;i<=7;i++)
   {
      printf("\n%d",arr[i]);
    }
   return 0;
}
```



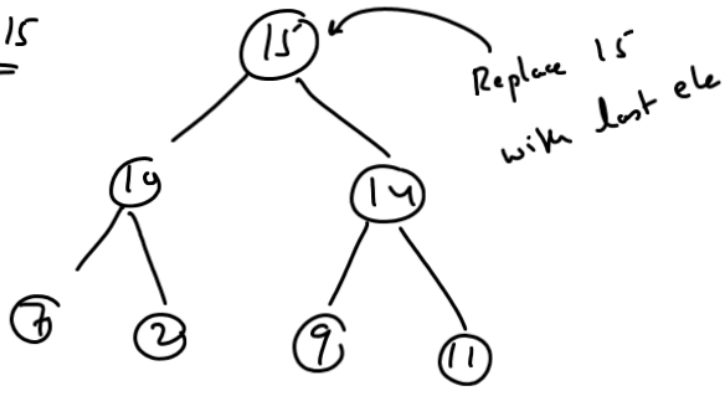

10, 7, 9, 11, 2, 15, 14

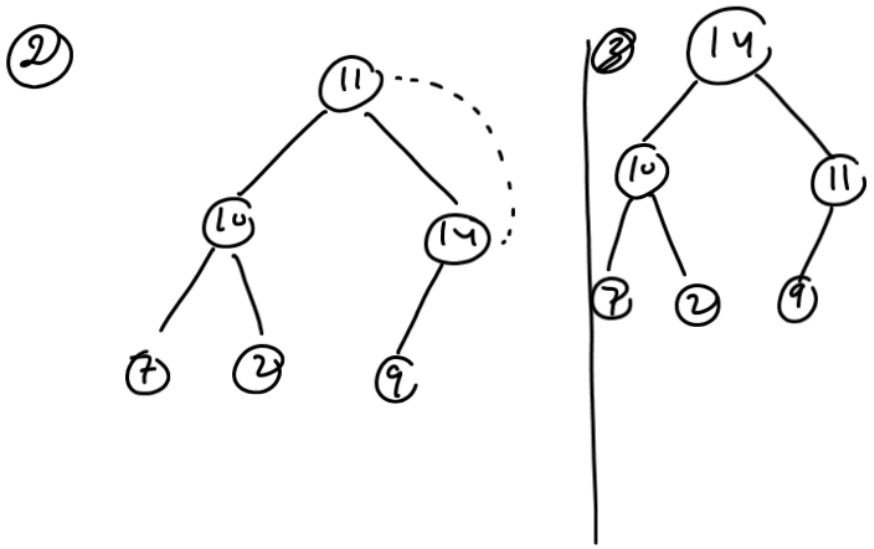


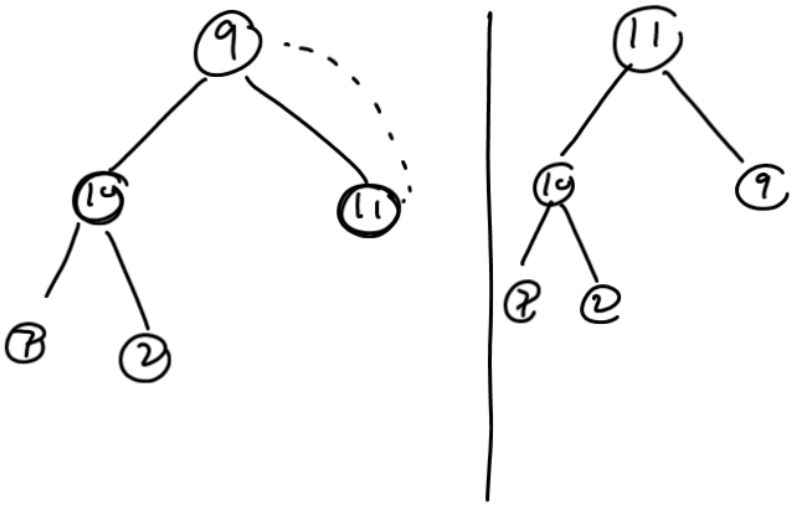

```
void ins_heap(int arr[ ],int index,int child)
{
   int par;
   while(index>1)
   {
      par=index/2;
      if(child<arr[par])
       {
          arr[index]=child;
          return;
       }
     arr[index]=arr[par];
     index=par;

    }
   arr[1]=child;
}
```

## Deletion of Root In heap

Deleting 15




2
11
10
14
7
2
9
3
14
10
11
7
2
9


9
10
11
7
2
11
10
9
7
2