

SEM 3\Exp8\shell_Sort.c

```
1 // Function to perform shell sort
2 void shellSort(int arr[], int size)
3 {
4     for (int gap = size / 2; gap > 0; gap /= 2)
5     {
6         for (int i = gap; i < size; i++)
7         {
8             int temp = arr[i];
9             int j;
10
11             // Shift earlier gap-sorted elements up until the correct location for
arr[i] is found
12             for (j = i; j >= gap && arr[j - gap] > temp; j -= gap)
13             {
14                 arr[j] = arr[j - gap];
15             }
16             arr[j] = temp;
17         }
18     }
19 }
20
```