Consider the following Python code, a recursive version of selection sort:

```python
1 def recSS(A, i):
2     '''
3     Sorts A[i:] by recursively finding the smallest element in the remaining
4     list and putting it into its correct position.
5     '''
6     if i < len(A) - 1:
7         # Find the minimum element in A[i:]
8         small = i
9         for j in range(i + 1, len(A)):
11                small = j
12         # Swap A[i] and A[small]
13         temp = A[i]
15         A[small] = temp
16     # Sort the remainder of the list
17     recSS(A, i + 1)
```

Note that the above has an implicit base case $i = \text{len}(A) - 1$, for which it does nothing.

Analyse the asymptotic (worst-case) runtime of `recSS` in terms of $n$, the size of the input list.