**Homework 3**

**1 Which of the following arrays doesn’t represent a max oriented binary heap?**

1. **21,20,19,18,17,16,15,14,13,12**
2. **36,32,31,29,27,19,18,21,224,26**
3. **32,29,25,19,18,17,15,16,20,13**

**2 Construct max heap using bottom-up method for the following array**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S** | **O** | **R** | **T** | **E** | **X** | **A** | **M** | **P** | **L** | **E** |

**3 Find the most frequent word in the given text file using Symbol Table.**

**Calculate the running time of your code.**

**The file is attached with the homework**