**THE MOST IMPORTANT ADTs**

Find out the most suitable ADT to solve each of the following situations:

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| **SITUATION** | **ADT** |
| Handling of interrupts in real-time systems |  |
| Filesystem organization |  |
| Trie - dictionary, such as one found on a mobile telephone for autocompletion and spell-checking |  |
| Sequence of calls (activation records) to a recursive function |  |
| Connections/relations in social networking site |  |
| Domain name server (DNS) |  |
| Call Center phone systems, to hold people until a service representative is free |  |
| Pile of plates that you encounter when you eat at the cafeteria |  |
| IP routing table |  |
| Print spooling: documents are loaded into a buffer and then the printer pulls them off the buffer at its own rate |  |
| Company organizational structure: divisions, departments, offices, etc. |  |
| Back/Forward operations on browsers |  |
| Road map |  |