**Quick Sort(n=10000)**

| **Pivote\_type** | **Random** | **Sorted** | **Almost Sorted** |
| --- | --- | --- | --- |
| First | 0.002 | 0.227 | 0.226 |
| Random | 0.002 | 0.003 | 0.001 |
| Median(first,middle,last) | 0.003 | 0.004 | 0.002 |
| Median(n/4,middle,3n/4) |  |  |  |

**Quick Sort(n=100000)**

| **Pivote\_type** | **Random** | **Sorted** | **Almost Sorted** |
| --- | --- | --- | --- |
| First | 0.024 | **-** | **-** |
| Random | 0.023 | 0.038 | 0.020 |
| Median(first,middle,last) | 0.025 | 0.036 | 0.010 |
| Median(n/4,middle,3n/4) |  |  |  |

**Quick Sort(n=1000000)**

| **Pivote\_type** | **Random** | **Sorted** | **Almost Sorted** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Quick Sort(n=10000000)**

| **Pivote\_type** | **Random** | **Sorted** | **Almost Sorted** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Marge Sort**

| **Pivote\_type** | **Random** | **Sorted** | **Almost Sorted** |
| --- | --- | --- | --- |
| **n = 10000** | 0.002 | 0.001 | 0.001 |
| **n = 100000** | 0.053 | 0.036 | 0.032 |
| **n = 1000000** |  |  |  |
| **n = 10000000** |  |  |  |

**What is your observation? Which sort is faster and why?**