```
1a
                                               7
0
      1
             2
                    3
                           4
                                  5
                                        6
                                                      8
                                                                    10
                                                             9
             0
                                        9
                    12
                                               70
3
                    42
98
1
1b
0
      1
                                        6
                                                      8
                                                                    10
             2
                    3
                                  5
                                               7
                                                             9
             0
                                  1
                                        9
                                               42
                                                      70
3
                    12
                           98
1c
0
      1
             2
                    3
                           4
                                  5
                                        6
                                               7
                                                      8
                                                             9
                                                                    10
3
             0
                                 98
                                        9
                    12
                                               70
                                                             42
Failed at 1
53491/100001 = 0.534904651
2 insert O(1)
 Rehash O(N^2)
 Remove O(1)
 Contains O(N)
3
int hashit( int key, int tablesize)
{
int i;
i= (ceil((key^5+5)^½))%tablesize;
return i;
}
```

```
int hashit( std::string key, int tablesize)
{
int i;
float j;
j = std::stof(key);
i= (ceil(j*j*\pi))%tablesize;
return i;
}
```

Parallel programming is the process of divvying up and coordinating the processing of tasks for the computer across its processor cores.

5

4

Two strategies are temporal data partitioning and spatial instruction partitioning