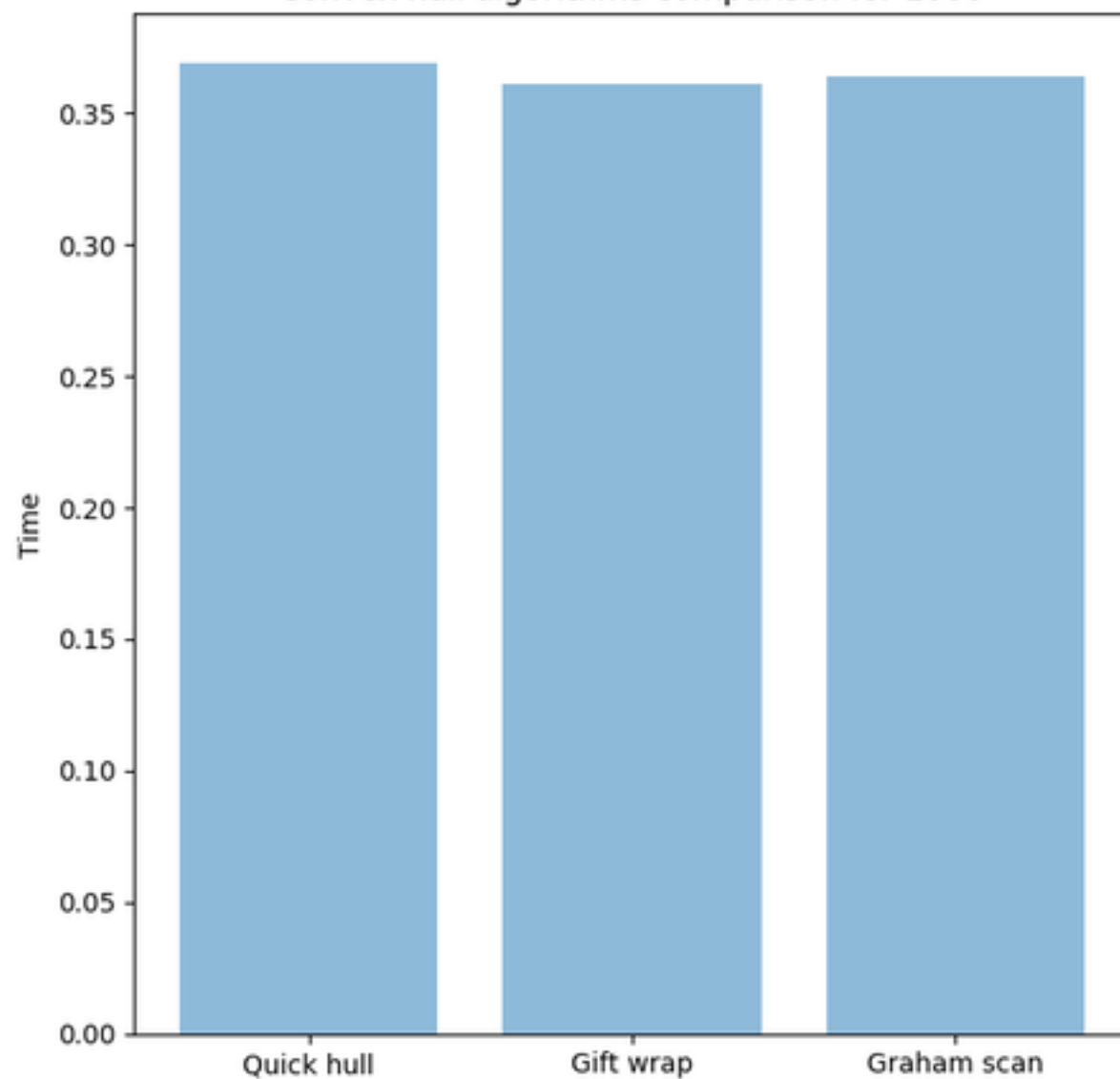


```
python2 convex_hull.py 94x50
```

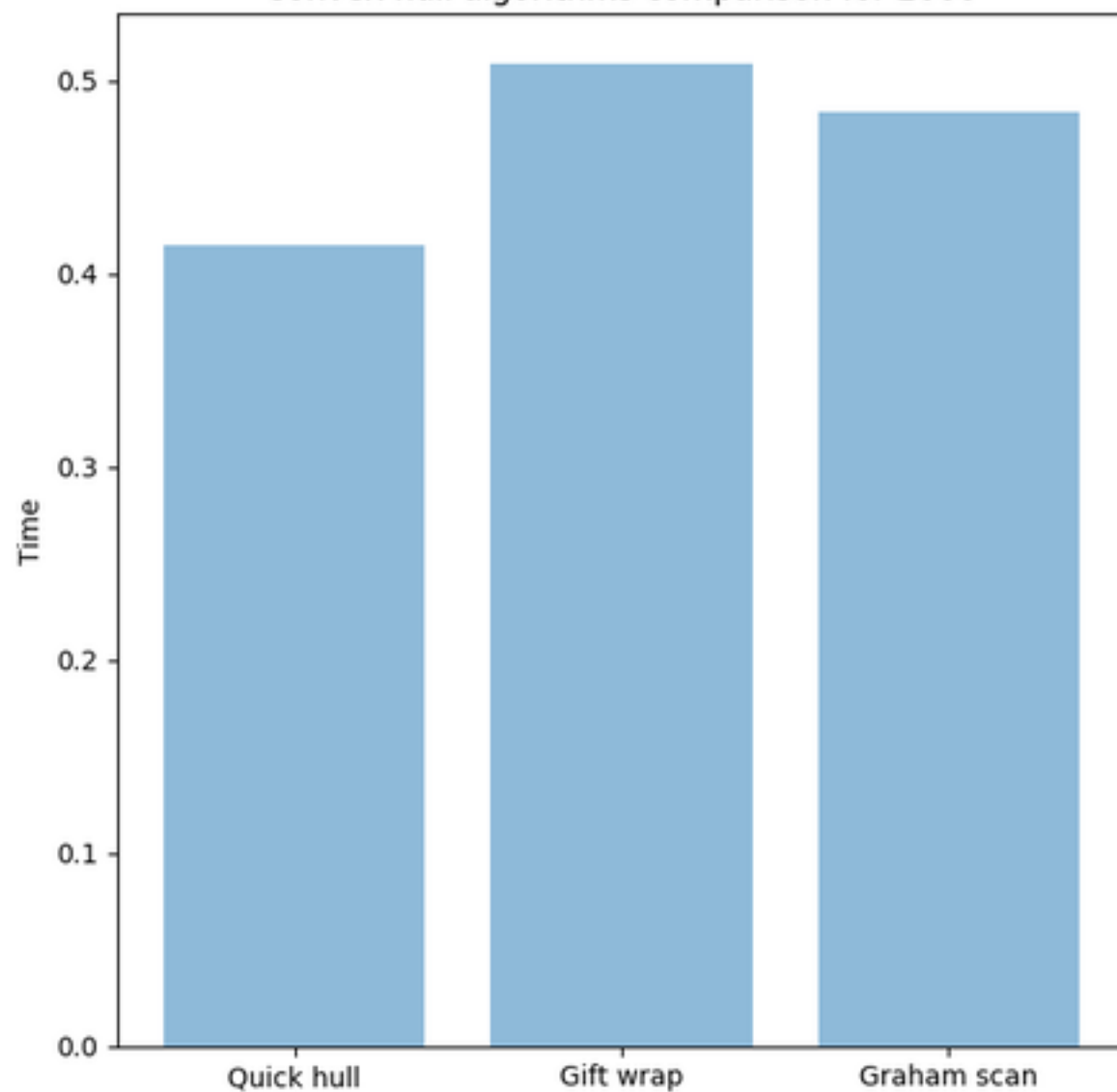
```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.363869905  
47180176}
```

Convex hull algorithms comparison for 1000



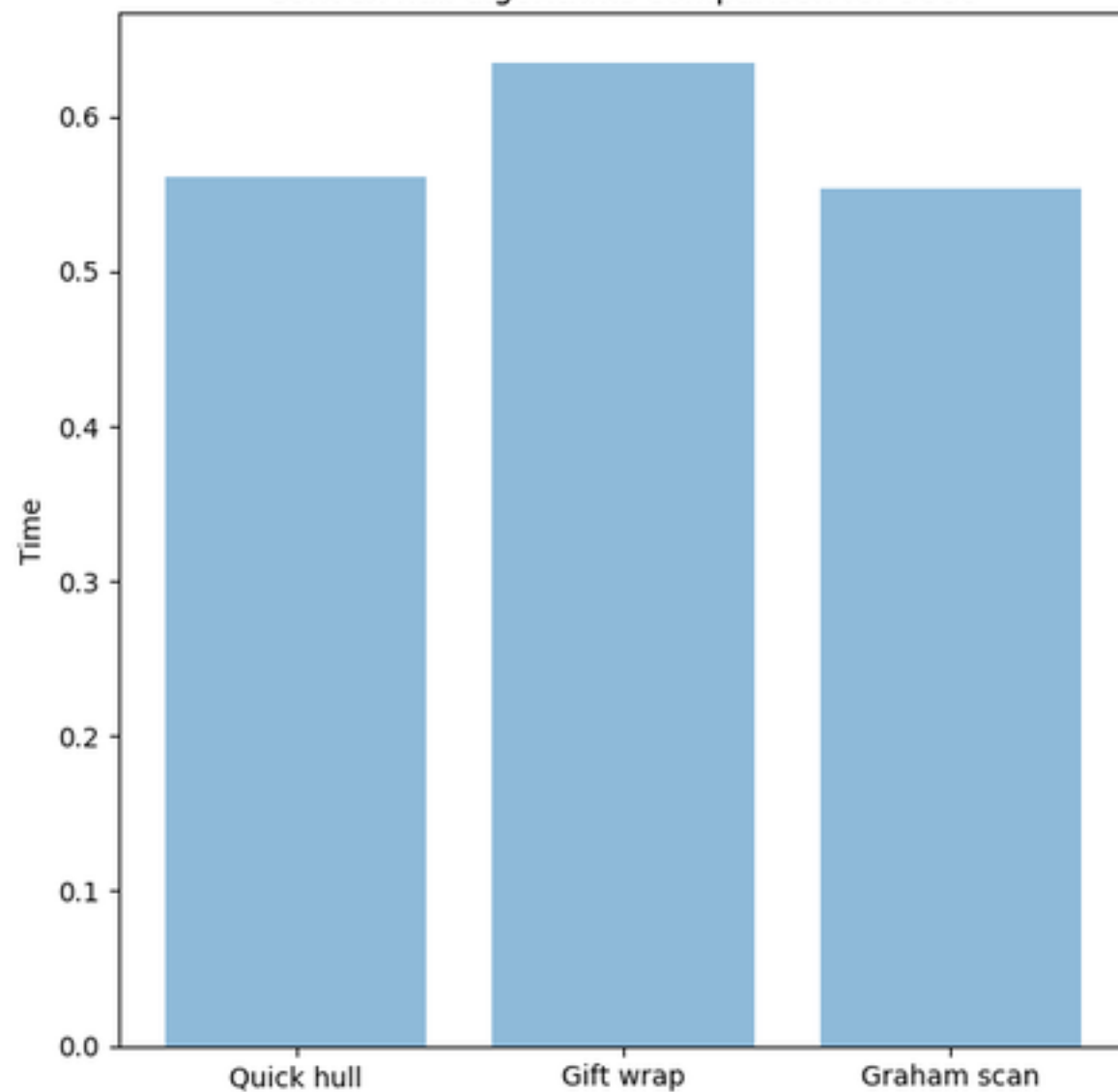
```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.363869905  
47180176}  
{'Quick hull': 0.41518497467041016, 'Gift wrap': 0.5090310573577881, 'Graham scan': 0.48417115  
211486816}
```

Convex hull algorithms comparison for 2000



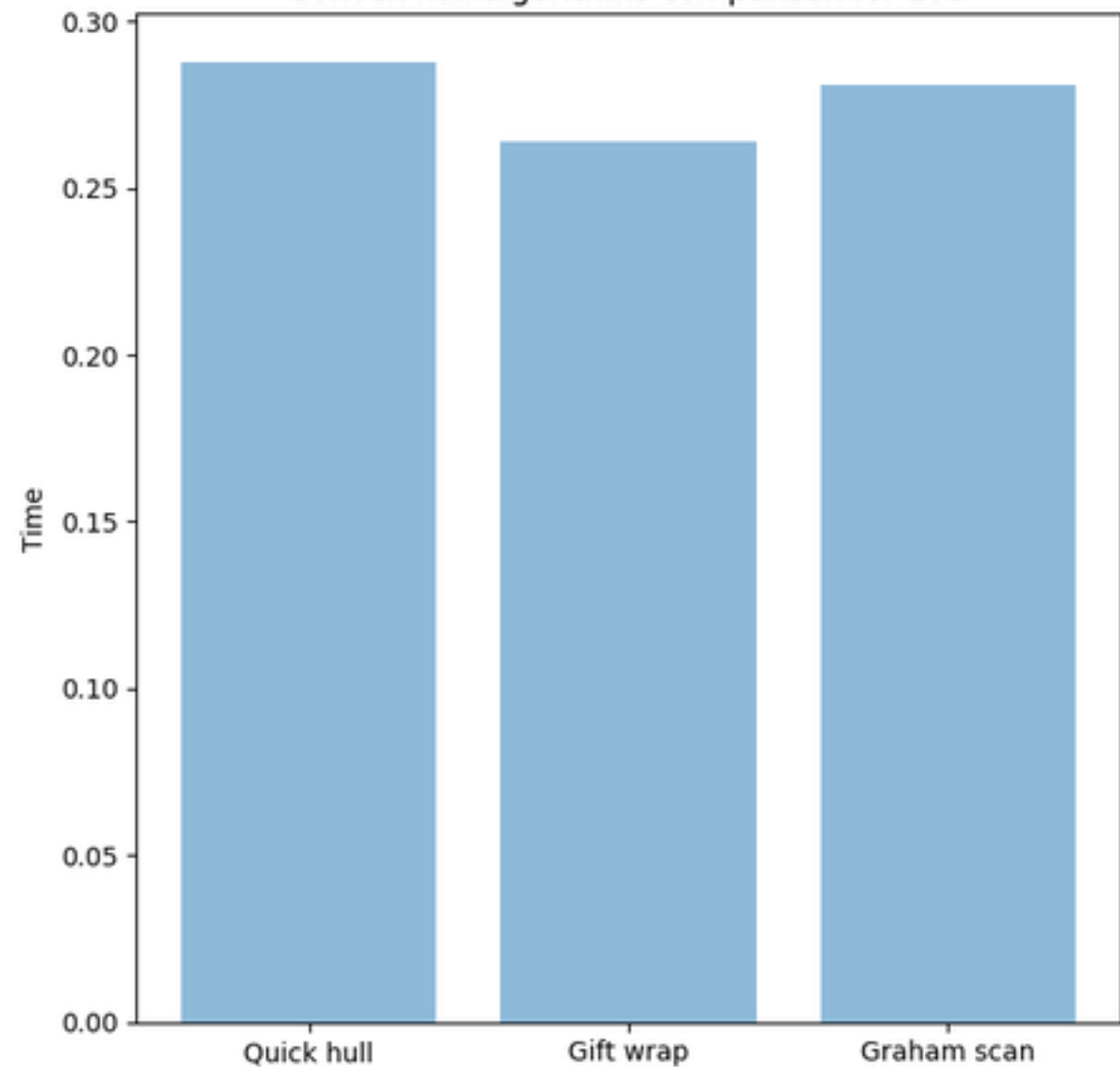
```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.363869905  
47180176}  
{'Quick hull': 0.41518497467041016, 'Gift wrap': 0.5090310573577881, 'Graham scan': 0.48417115  
211486816}  
{'Quick hull': 0.5615208148956299, 'Gift wrap': 0.6348710060119629, 'Graham scan': 0.553371906  
2805176}
```

Convex hull algorithms comparison for 5000



```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.363869905  
47180176}  
{'Quick hull': 0.41518497467041016, 'Gift wrap': 0.5090310573577881, 'Graham scan': 0.48417115  
211486816}  
{'Quick hull': 0.5615208148956299, 'Gift wrap': 0.6348710060119629, 'Graham scan': 0.553371906  
2805176}  
{'Quick hull': 0.28789782524108887, 'Gift wrap': 0.26407599449157715, 'Graham scan': 0.2809469  
599859619}
```

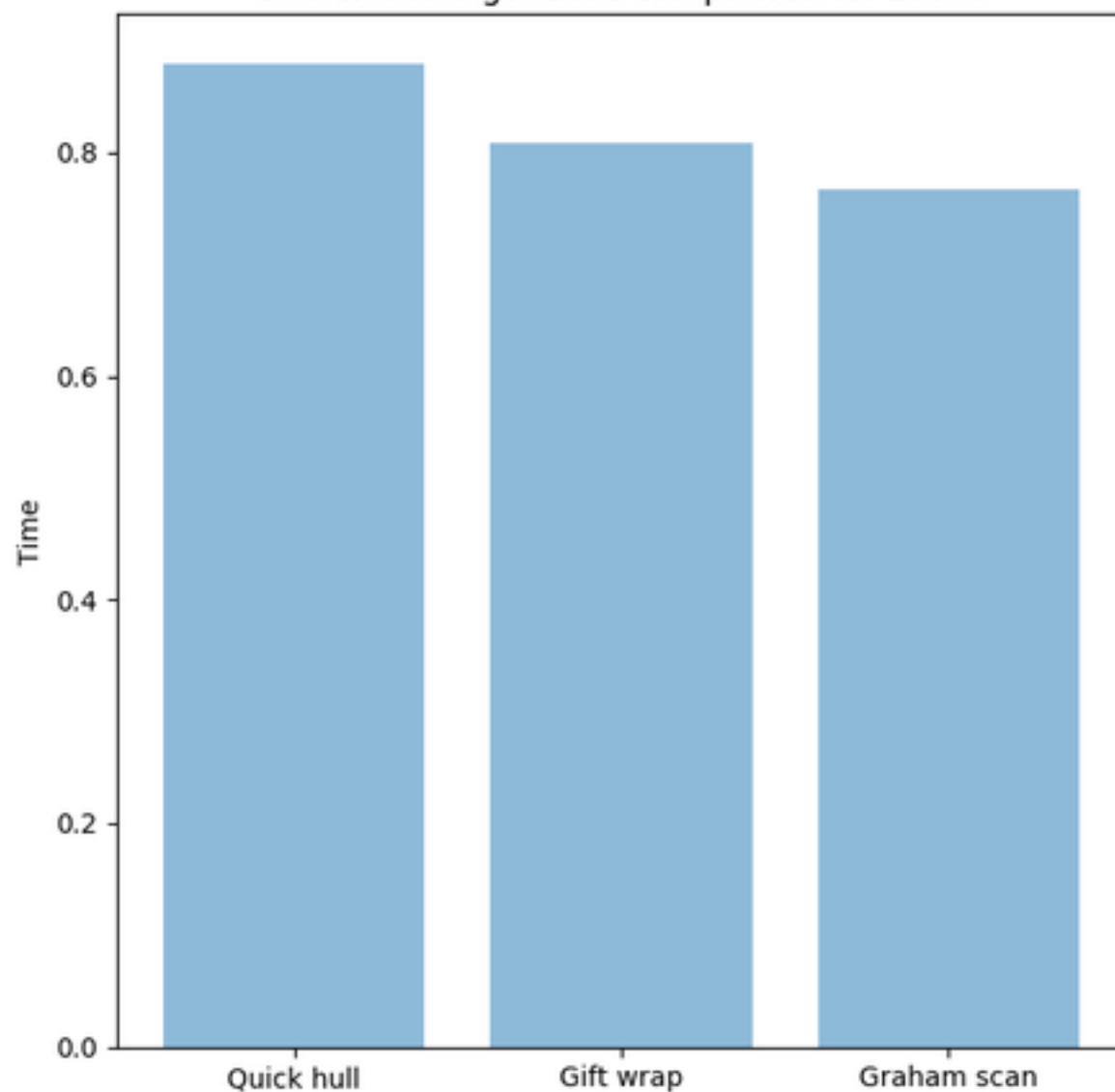
Convex hull algorithms comparison for 100



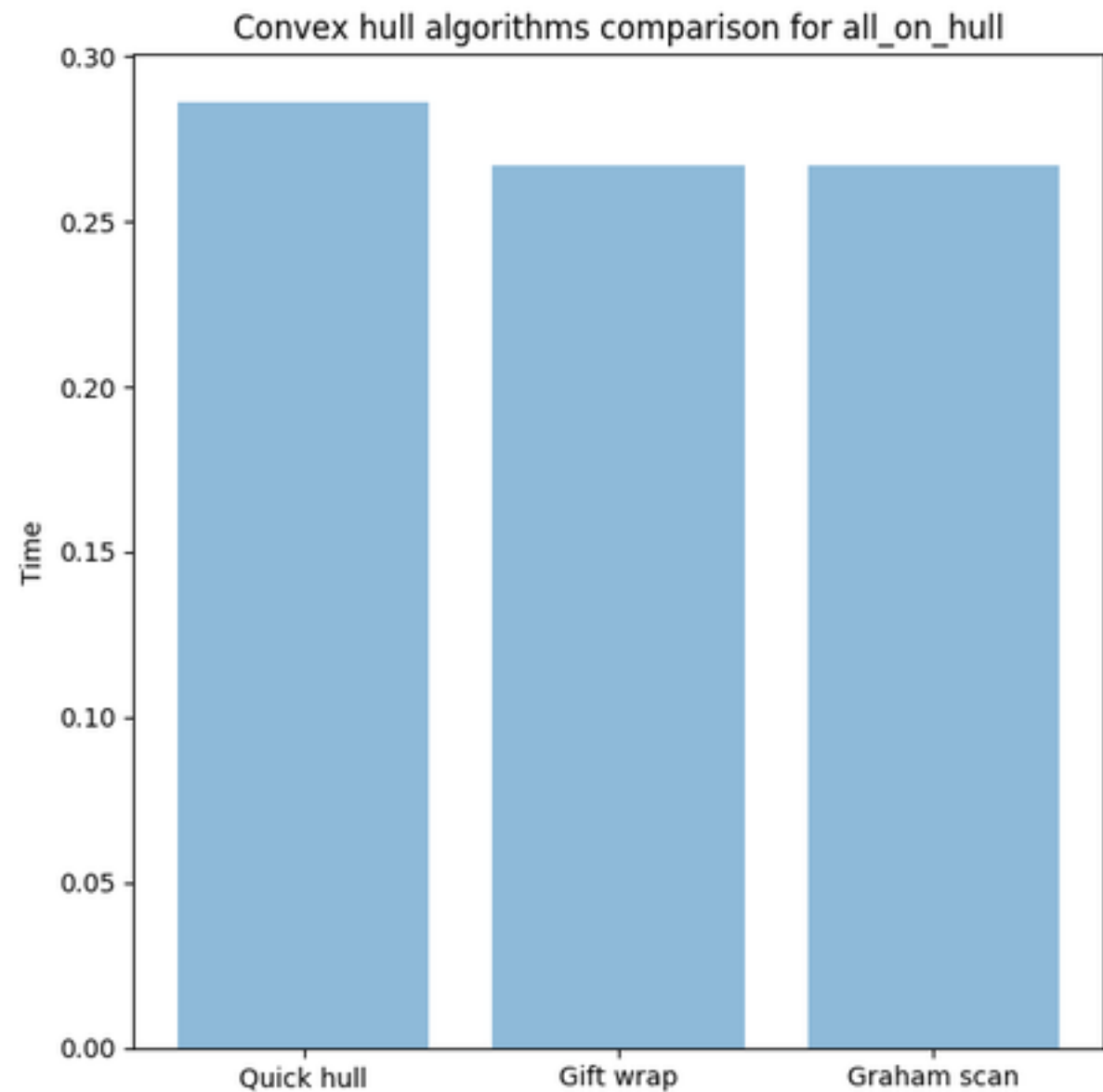
python2 convex_hull.py 94x50

```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.36386990547180176}  
{'Quick hull': 0.41518497467041016, 'Gift wrap': 0.5090310573577881, 'Graham scan': 0.48417115211486816}  
{'Quick hull': 0.5615208148956299, 'Gift wrap': 0.6348710060119629, 'Graham scan': 0.5533719062805176}  
{'Quick hull': 0.28789782524108887, 'Gift wrap': 0.26407599449157715, 'Graham scan': 0.2809469599859619}  
{'Quick hull': 0.8799910545349121, 'Gift wrap': 0.8087239265441895, 'Graham scan': 0.766334056854248}
```

Convex hull algorithms comparison for 10000

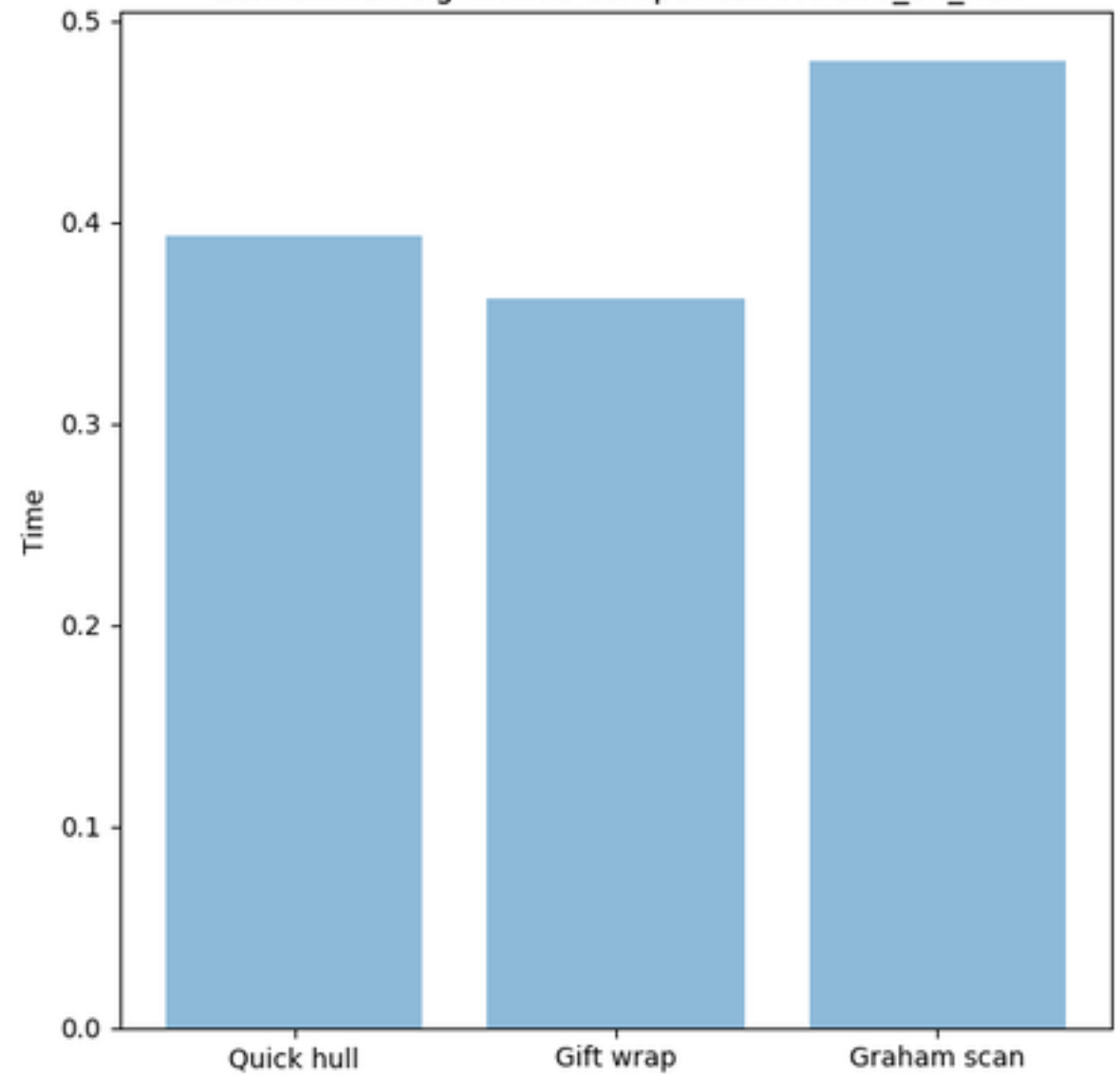


```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.36386990547180176}  
{'Quick hull': 0.41518497467041016, 'Gift wrap': 0.5090310573577881, 'Graham scan': 0.48417115211486816}  
{'Quick hull': 0.5615208148956299, 'Gift wrap': 0.6348710060119629, 'Graham scan': 0.5533719062805176}  
{'Quick hull': 0.28789782524108887, 'Gift wrap': 0.26407599449157715, 'Graham scan': 0.2809469699859619}  
{'Quick hull': 0.8799910545349121, 'Gift wrap': 0.8087239265441895, 'Graham scan': 0.766334056854248}  
{'Quick hull': 0.28624486923217773, 'Gift wrap': 0.266834020614624, 'Graham scan': 0.2669708728790283}
```



```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.363869905  
47180176}  
{'Quick hull': 0.41518497467041016, 'Gift wrap': 0.5090310573577881, 'Graham scan': 0.48417115  
211486816}  
{'Quick hull': 0.5615208148956299, 'Gift wrap': 0.6348710060119629, 'Graham scan': 0.553371906  
2805176}  
{'Quick hull': 0.28789782524108887, 'Gift wrap': 0.26407599449157715, 'Graham scan': 0.2809469  
699859619}  
{'Quick hull': 0.8799910545349121, 'Gift wrap': 0.8087239265441895, 'Graham scan': 0.766334056  
854248}  
{'Quick hull': 0.28624486923217773, 'Gift wrap': 0.266834020614624, 'Graham scan': 0.266970872  
8790283}  
{'Quick hull': 0.3930320739746094, 'Gift wrap': 0.36215996742248535, 'Graham scan': 0.47999596  
59576416}
```

Convex hull algorithms comparison for 100_on_hull



```
~/Sem_2-2/algo/CS-212-Assignments/Assignment-4(master*) » python2 convex_hull.py  
{'Quick hull': 0.3693571090698242, 'Gift wrap': 0.3613739013671875, 'Graham scan': 0.363869905  
47180176}  
{'Quick hull': 0.41518497467041016, 'Gift wrap': 0.5090310573577881, 'Graham scan': 0.48417115  
211486816}  
{'Quick hull': 0.5615208148956299, 'Gift wrap': 0.6348710060119629, 'Graham scan': 0.553371906  
2805176}  
{'Quick hull': 0.28789782524108887, 'Gift wrap': 0.26407599449157715, 'Graham scan': 0.2809469  
699859619}  
{'Quick hull': 0.8799910545349121, 'Gift wrap': 0.8087239265441895, 'Graham scan': 0.766334056  
854248}  
{'Quick hull': 0.28624486923217773, 'Gift wrap': 0.266834020614624, 'Graham scan': 0.266970872  
8790283}  
{'Quick hull': 0.3930320739746094, 'Gift wrap': 0.36215996742248535, 'Graham scan': 0.47999596  
59576416}  
{'Quick hull': 0.3594059944152832, 'Gift wrap': 0.32534193992614746, 'Graham scan': 0.32116889  
95361328}
```

Convex hull algorithms comparison for 50_on_hull

