



























Chan's Algorithm

- Combines the benefits of both algorithms
- Partition points into n/m groups of size m
- Use Graham scan on each one
 - O((m log m) (n/m)) = O(n log m)
- Merge the n/m convex hulls using a Jarvis march algorithm by treating each group as a "big point"
 - Tangent between a point and a convex polygon with m points can be computed in O(log m) time

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- $O((n/m)(\log m)(h)) = O((n/m)h \log m)$ 3/30/10 COT 6936





