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Q2, a.

$p_1, \dots, p_n$  are points on a plane,  $r_1, \dots, r_n$  are the radius around the point

$$\text{MAX } \sum_{i=1}^n r_i$$

St. The distance between points must be larger than the sum of their radii

$$r_i + r_j \leq d_{ij} \text{ for all } i, j$$

$$r_i \geq 0$$