Reminder: hou me the tools you have:
- Variables (and datatypes, and assign ment)
- Conditionals, if/else (and boolean expressions.
۲٫۶ د ۶= != =>
- loops (while for break, continue, booleans)
- Lunctions (value us reference parameters, seturn 5 tote ments)
- vectors + strings (expandable containers of variables)
har pruetice problems.
Given a collection of points in the plane, find the two points that are closest (Euclidean distance)
How to represent the points?
(and use two vectors; P = (3)) vector (int) X, Y;

Given the above representation, letzils could be as fallows: How to so through all pairs pairs ?

Size t a = 0, b = 1; (say & points = N) for (i=0; i<n-1; i++) { for (j=i+l;j<n;j+t) { it (d(i,i) < d(a,b)) { 1/ say d(i,s) sies a = i; b = i;I dist. (or dist) between $\mathcal{C} = \mathbf{f}_{i_j} \mathbf{f}_{j_j}$ int d(szeti, sizeti) 11 print auswer $\int_{\mathbb{R}^{n}} dx = (XC:J - XC:J)$ (out 22 ... int dy = (YC;] - YC;]; return dx*dx + dy*dy;

6ther gooding from 2 senesters ago:

(Dyporte difference Interes sun of all odd integers

from integers.

E.S. if input was 192745,

output should be (16) = (1+9+5+7)-(2+4)

Say all
$$X \ge 0$$
. Then

This works too:

 $5+=\left(\left(\left(\frac{9}{5}\right)-\left(1-\left(\frac{1}{5}\right)\right)+X\right)$

$$\begin{array}{c} (2) & (2) & (3) &$$

$$XS_2 = 1$$
 if old, 0: R
 $1-XS_2 = 1$ if even,
0 if old