Friends or 2 mutual enemies.
In this example no 2 mutual
Red - Enemy
Purple - Friends

Suppose the other 5 pairs are enemies
A,B (B,D) (C,E) (E,A)

Suppose the following pairs are Friends

The total number of pairs \( \binom{5}{2} = 10 \)

Let the people be A, B, C, D, E.

\[ \text{Page 46} \]
Let \( f(x) = x \) be the person x knows.

\[ A = \{ \text{set of people at the party} \} \]

\[ |A| = n \geq 2 \]

\[ n \geq 40 \]

The maximum number of people at the party.

Note: If there are n people, then:

\[ \frac{2}{n} = 5 \]

\[ \sqrt{\frac{2}{N}} = 5 \]

\[ N = 800 \text{, 275} \]

\[ N = 1000, 000 \]

\[ k = 1000, 000 \]
Suppose each boy chooses a maximum of

\[(m-1)\] choices. For \(x \in \{1, 2, \ldots, m\}\) then

The same of people.

such that \(f(x) = \frac{1}{x} (\mod n)\). So, we know

Clearly, \(f(0) = 0\).

Then \(x = 5, 15, 25, \ldots, 31, 39, \ldots, n-1\).

If \(n = 2\) person who knows in person

Among people then \(x = 5, 15, 25, \ldots, n-2\)

But, if \(n = 3\) person who knows
Now there are 11 sub sections.

1 2 3 4 5 6 7 8 9 10

m m m m m m m m m m m

One more to remain. Can stand it for.

Fate of God. A prayer.

Comprehend a

Other: Just as above \( \left( u_{1}+u_{2}+\cdots+u_{t-1}\right)^{2} \) expands

\( (u_{1}-1)+(u_{2}-1)+\cdots+(u_{t-1}-1) = (u_{1}+u_{2}+\cdots+u_{t}) \)

Take all of God's in the box

#24
Here we have a graph of a curve. From this, we can see that each vertex of the graph is connected to the next one.

Since each edge must be followed by the next, the calculation for the total is:

\[
\text{Total} = \frac{101 \times 110}{2} = 10100
\]

So the total number of permutations is 10,100.

Therefore, don't stand next to each other.
2 horses race, 6 ways to win, \( P(6,3) = 6 \)

Now since we have 6 ways to win, and there are \( \binom{4}{2} = 6 \) ways for 2 horses to tie.

Case (2) Two horses tie, other displaced.

Case (4) No tie, \( \binom{10}{2} = 45 \) = 45.
24 x 36 + 666 + 1 = 753

case (5) All hands 7 x 3 = 1

6 x 4 x 2 = 8

case combination:

then 2 ways for race to finish for

4

case (4) Three ace bid (4) and the tie = 4

4

case (3) Two spades of hearts

4

case (2) Two spades of hearts