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Mathematical Induction

Principle:

To prove the following by using principle of mathematical induction

1+2+3+...+n = \frac{n(n+1)}{2} for all \(n \in N\)

Solution:

Let \(P(n)\) be \(1+2+3+...+n = \frac{n(n+1)}{2}\)

Step I:

Show that \(P(1)\) is true.

$$1 = \frac{1(1+1)}{2}$$

$$1 = 1$$

\(P(1)\) is true

Step II:

Assume \(P(k)\) is true for some positive integer \(k\).

$$1 + 2 + 3 + \ldots + k = \frac{k(k+1)}{2}$$

Step III:

We shall now prove that \(P(k+1)\) is true.

$$1 + 2 + 3 + \ldots + k + (k+1) = \frac{(k+1)(k+2)}{2}$$

$$[1 + 2 + 3 + \ldots + k] + (k+1) = \frac{(k+1)(k+2)}{2}$$

$$\frac{k(k+1)}{2} + (k+1) = \frac{(k+1)(k+2)}{2}$$

$$\frac{k(k+1) + 2(k+1)}{2} = \frac{(k+1)(k+2)}{2}$$

$$\frac{(k+1)(k+2)}{2} = \frac{(k+1)(k+2)}{2}$$

$$(k+1)(k+2) = (k+1)(k+2)$$

$$k^2 + 3k + 2 = k^2 + 3k + 2$$

$$k^2 + 3k + 2 - k^2 - 3k - 2 = 0$$

$$0 = 0$$

Hence \(P(n)\) is true for \(n=k+1\)

Therefore \(P(n)\) is true for all \(n \in N\).

FOR MICHAEL P:

1. GO OVER ORIGIN OF RELATIONSHIP/AI AND INITIAL AGREEMENT
2. ANY KNOWLEDGE RELATIONSHIP GOING BADLY? WHEN/HOW FIND OUT
3. INVOLVED IN ATTEMPTS TO MEDIATE/AGREE BEFORE COURT FILING?
SHOULD SHEILA BE INVOLVED? IF NOT, WHY NOT?
4. EST. PATERNITY? WHY?
5. LAST COMM - CARD FOLLW BY ANGRY TELEPHONE MESS?
6. DO COUPLES/ETC. NEED TO THINK MORE CAREFULLY ACT POSS. OF BREAKUP?
7. TINA SUGGEST. THERE'S BEEN RADICAL SHIFT IN YOUR POS - FRONT OF OH. WILL TO RAISE CHILD - THEN SUDDEN ANGER, TESTIMONY TO EXCLUDE TINA, SHE SAYS SHE CAN'T UNDERSTAND SHIFT CAN SHED LIGHT ON THAT?

Director of Finance

- Eat muffin and get news in cafeteria
- Check calendar, cancel some meetings
- Check "cash balances", open the bank
- Lots of math, fixing formulas
- Keep loans manageable, under a limit
- Often disappointed
- Review expenses and sign checks
- Implementation of paperless process
- Holding interviews for positions

The Tempest
20/10/15
Act 1 - Scene 2
Summary
- Prospero & Miranda witness shipwreck
- Miranda feels empathy
- Prospero finally discloses their past to Miranda
  - Prospero was once Duke of Milan but became more interested in his studies than politics
  - Prospero shared his dukeship with Antonio (brother) but he overthrew Prospero
  - Antonio had Prospero & Miranda thrown off island -> they found new island
- Prospero puts Miranda to sleep
- Prospero fails to Ariel (subservient spirit) -> they were responsible for the storm
  - everyone is safe & in groups on island...
  - ...except Ariel is alone
  - ...king's son is in boat (safe)
  - ...had saved Ariel from Sycorax's imprisonment
- Prospero & Miranda talk to Caliban (servant) against will
- Miranda & Ferdinand fall in love at first sight
- Prospero "imprisons" Ferdinand
- Prospero promises Ariel freedom in 2 days

Notes
- Prospero is god-like -> he can control the weather
- Miranda is a highly complex character -> innocent but not simple
- seen through use of metaphors & lyrical language
- "Art thou ignorant of what thou art,nought knowing of whence I am." -> 2.1.19
- Prospero uses cryptic language to puzzle Miranda to think for herself -> self discovery
- catalyst for discovery

Bolo de fubá

Ingredientes:
3 ovos
2 xícaras (xícara de chá) de açúcar
1 copo de farinha de trigo
1 copo de leite
1 copo de óleo
2 colheres de sobremesa de fermento
1 pitada de sal

Preparo:
Bater tudo no liquidificador e colocar em uma forma untada e enfarinhada.
Depois de pronto polvilhar com canela e açúcar e colocar no forno para dourar e retirar estando frio.

Bolo de aveia

1 tablete margarina
1 xícara de açúcar refinado
3 ovos inteiros
3 maçãs cortadas em cubos e casca
2 bananas picadas em cubos
1 xícara de aveia
1 e 1/2 xícaras de farinha de trigo
1 colher de sopa de canela em pó
1 colher de sopa de pó royal

Junte a margarina, açúcar e ovo.
Bata a farinha de trigo, misture bem.
Acrescente canela e o pó royal.
Continue misturando, por último coloque as maçãs e de véspera misture (banana, morango, abacaxi, etc.) unte a forma.
Polvilhe 1 xícara e 1/2 de açúcar com 2 colheres de sopa de canela e polvilhe sobre a massa.
Deixe ficar no forno até dourar.

Bolo de fubá com queijo
1 xícara de fubá
1 xícara de farinha de trigo
1 xícara de açúcar
1 colher (sopa) de manteiga
3 ovos
2 xícaras de leite
1 colher (sopa) de queijo ralado
1 colher (sopa) de fermento em pó
Modo de preparo:
Misture todos os ingredientes secos.
Acrescente os ovos, a manteiga e o leite aos poucos, mexendo bem.
Por último, acrescente o queijo ralado e o fermento.
Despeje a massa numa forma untada e enfarinhada.
Leve ao forno médio, pré-aquecido, por cerca de 40 minutos.
Sirva quente ou frio.

KNN:

HOW IT WORKS:

IT DETECTS THE K NEAREST POINTS IN THE N DIMENSIONAL SCATTER PLOT, LOOKS FOR THEIR CLASSIFICATIONS AND DETERMINES THEIR CLASS. BASED ON THIS INFORMATION

- WHAT IF IT TIES: USUALLY THE ALGORITHM WILL TAKE INTO CONSIDERATION THE CLOSEST NODE'S CLASS

- HOW TO ADJUST SIMPLY CHANGING THE K COEFFICIENT OF NEIGHBORS TO BE STUDIED. (and adjust the minorities weight)

NOTE: BETTER FOR FINER, INCREASED DATASETS.
- SMOTE: BETTER FOR FIXING. (INCREASE SAMPLES)
- UNDERSAMPLING: DISCARD MAJORITIES. (DECREASES DATA UNTIL IT EQUALS THE # OF MINORITIES)