

Sally has

|    |    |   |   |
|----|----|---|---|
| 20 | 10 | 5 | 1 |
| 2  | 1  | 0 | 1 |

Daniel has

|    |    |   |   |
|----|----|---|---|
| 20 | 10 | 5 | 1 |
| 1  | 0  | 5 | 4 |

Sue has

|    |    |   |   |
|----|----|---|---|
| 20 | 10 | 5 | 1 |
| 1  | 1  | 0 | 2 |

Sally owes \$23

Daniel owes \$18

Sue owes \$15  
56

Sally gives \$30 to pot

Daniel gives Sally \$7

Dan gives Sue \$5

Dan gives pot \$6

Sue gives pot \$20

Start with those with small bills give money to those without.

Start w/ person with least small bills

- They put closest to what they owe in (going over)

\$20

\$20

\$10

\$1

\$20

\$5

\$5

\$5

\$5

\$5

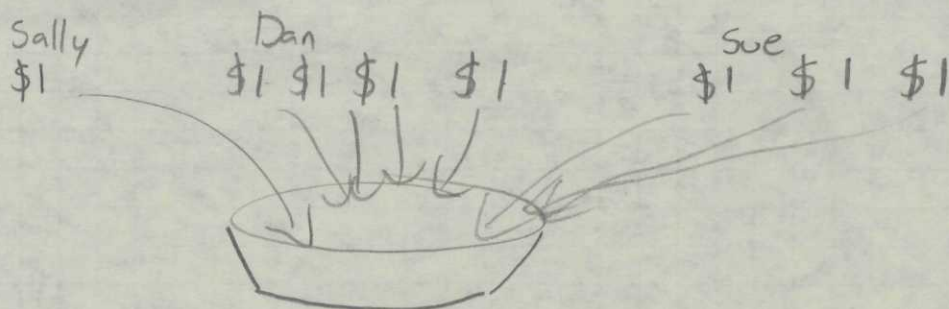
\$1

\$1

\$1

\$1

put all 1's for each person in the "ones pot"  
(not exceeding for any person their total owed)



ones pot has \$8

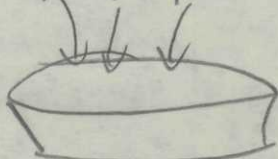
update everyone's total

|       |      |      |
|-------|------|------|
| Sally | \$22 | owed |
| Dan   | \$14 | owed |
| Sue   | \$12 | owed |

repeat for 5's pot (not exceeding for any person by more than \$4)

Sally      Daniel      Sue

\$5 \$5 \$5



5's pot has \$15

update everyone's total

sally \$22 owed

Dan \$-1 owed (ie he is owed \$1)

Sue \$12 owed

pull what any person is owed from ones pot if possible  
(if someone put in money themselves pull that money)



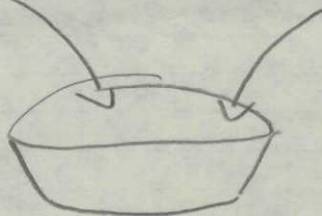
ones pot has \$7

update totals



Now 10's pot (don't exceed by more than \$9)

Sally                      Dan                      Sue  
\$10    \$10



10's pot has \$20

Update totals

Sally \$12

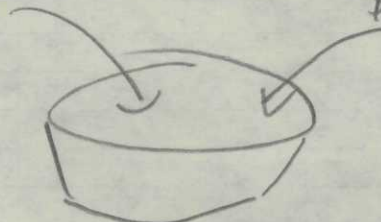
Dan \$0

Sue \$2

Pull as before from lower pots (start at 5's and work down)

Now 20's pot (don't exceed by more than \$19)

Sally                      Dan                      Sue  
\$20    \$20



20's pot has \$40

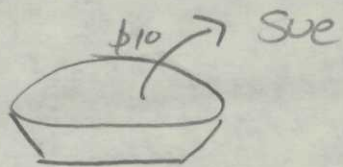
update totals

Sally \$-8

Sue \$-18

Pull from lower pots taking turns golf style (ie furthest away from zero) pulls

Sue pulls \$10 from 10's pot (her own)



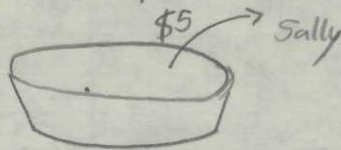
10's pot has \$10

Totals

Sally \$-8

Sue \$-8

Sally pulls \$5 from 5's pot



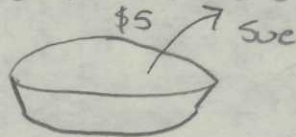
5's pot has \$10

Totals

Sally \$-3

Sue \$-8

Sue pulls \$5 from 5's pot



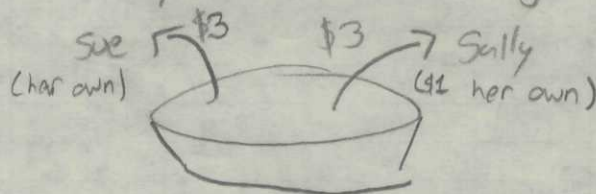
5's pot has \$5

Totals

Sally \$-3

Sue \$-2

Really take turns but gist is



One's pot has \$1

Check

Sally paid

\$20

\$10 ~~\$X~~

Sally took

\$5 \$1 \$1 ~~\$1~~

∴ Sally's total = \$23

Dan paid

\$1 \$1 \$1 ~~\$X~~

\$5 \$5 \$5

Dan took

~~\$X~~

∴ Dan's total = \$18

Sue paid

\$1 \$1 \$1

~~\$X~~ \$20

Sue took

~~\$X~~ \$5

~~\$X~~ ~~\$X~~ ~~\$X~~

Sue's total = \$15



1) All the 1's of all parties go into the one's pot (provided no one exceeds their total owed)

2) Update totals

3) Repeat for 5's pot (no one exceeds \$4 over their owed total)

4) Parties who are over their total owed remove from lower pots taking turns golf style

priority on who's money to take out:

1) Your own

2) That of someone who has reached zero

3) That of someone who's money you are already taking

5) Repeat ① ② and ④ for 10's and 20's where no one exceeds (bill being put in - 1) over their total

May not need the not exceeding part, maybe fill all pots and golf down

Nicki

|    |    |   |   |
|----|----|---|---|
| 20 | 10 | 5 | 1 |
| 1  |    | 2 |   |

Rebecca

\$20

Lisa

\$20 \$10 \$1 \$1 \$1

Brianna

\$5 \$5

ones

\$3

5's

\$20

10's

\$10

20's

\$60

Rebecca \$13

Lisa \$16

Brianna \$7

Nicki \$9

45

Lisa owes \$-17

Rebecca owes \$-7

Brianna owes \$-3

Nicki owes \$-21

Nicki takes 20 from 20's pot

X Now Nicki owes \$-1  
20's pot has  
\$40

Lisa takes 10 from 10's pot

X Now Lisa owes \$-7  
10's pot has \$0

Rebecca takes 5 from 5's pot

Now Rebecca owes \$-2  
5's pot has \$15

Lisa takes 5 from 5's pot

now Lisa owes \$-2  
5's pot has \$10

Brianna takes a dollar



End paid \$50 with  
2 twenties and 2 5's

ask for change in singles

Nicki is owed \$1

Brianna is owed \$1

Lisa is owed \$1

Rebecca is owed \$2