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CS 224

```
#cal nicer interface to /usr/bin/cal
case $# in
        0)      set $(date); m=$2; y=$6 ;;                      # no args: use today
        1)      m=$1; set $(date); y=$6; addOne=1 ;;            # 1 arg use this year
        *)      m=$1; y=$2; set $(date); addOne=0 ;;            # 2 args: month and year
esac

case $y in
        [0-9][0-9])                                             # Handles two digit years
         if [ $y -lt 100 ]                                      # Convert year to 4 digits if it's less than 100
        then
                if [ $y -le 50 ] && [ $y -ge 0 ]                # 0 <= y <= 50 for years 2000 on
                then
                        let y=$y+2000
                fi

                if [ $y -gt 50 ] && [ $y -lt 100 ]              # 51 <= y <= 99 for years 1951-1999
                then
                        let y=$y+1900
                fi
        fi
        ;;
*)
        case $m in                                              # Convert month name to an integer
                jan*|Jan*)      m=1 ;;
                feb*|Feb*)      m=2 ;;
                mar*|Mar*)      m=3 ;;
                apr*|Apr*)      m=4 ;;
                may*|May*)      m=5 ;;
                jun*|Jun*)      m=6 ;;
                jul*|Jul*)      m=7 ;;
                aug*|Aug*)      m=8 ;;
                sep*|Sep*)      m=9 ;;
                oct*|Oct*)      m=10 ;;
                nov*|Nov*)      m=11 ;;
                dec*|Dec*)      m=12 ;;
                01)             m=1 ;;                          # Handles leading zero on month
                02)             m=2 ;;
                03)             m=3 ;;
                04)             m=4 ;;
                05)             m=5 ;;
                06)             m=6 ;;
                07)             m=7 ;;
                08)             m=8 ;;
                09)             m=9 ;;
                [1-9]|10|11|12) ;;                              # numeric month
                *)              y=$m; m="" ;;                   # plain year
        esac
```

```
        if [ $addOne -eq 1 ]       # Following only runs when year is omitted and month is provided
        then
                case $2 in                                  # Convert current month to integer
                        Jan*)           n=1 ;;
                        Feb*)           n=2 ;;
                        Mar*)           n=3 ;;
                        Apr*)           n=4 ;;
                        May*)           n=5 ;;
                        Jun*)           n=6 ;;
                        Jul*)           n=7 ;;
                        Aug*)           n=8 ;;
                        Sep*)           n=9 ;;
                        Oct*)           n=10 ;;
                        Nov*)           n=11 ;;
                        Dec*)           n=12 ;;
                        *)              n=m ;;
                esac

                if [ $m -lt $n ]                    # Determine if input month has already passed
                then
                        let y=$y+1                          # Print next years calendar
                fi
        fi
        ;;
esac

/usr/bin/cal $m $y                                  # run the real one
```