## The Presidential Puzzle



Circa 1932.
(cardboard box and 13 wood pieces, $4^{\prime \prime} \times 4.75^{\prime \prime} \times 7 / 1^{\prime \prime}$; directions inside the cover)

## Further Reading

Wikipedia Roosevelt Page, from: http://en.wikipedia.org/wiki/Franklin_D._Roosevelt Wikipedia Hoover Page, from: http://en.wikipedia.org/wiki/Herbert_Hoover

## Roosevelt Solution

Here is every 3rd step of a 37 rectilinear moves ( 40 straight-line moves, 54 unit moves) solution:

| \#0: | \#3: | \#6: | \#9: | \#12: |
| :---: | :---: | :---: | :---: | :---: |
| R R A A W X | R R A A W X | A A B B W X | A A B B W X | A A B B |
| R R B B W X | R R B B W X | R R W X | R R C C w X | R R C C W X |
| C C 12 | C C 12 | R R C C 12 | R R 1 2 | R R 1 2 W X |
| Y Z D D H H | Y Z D D H H | Y Z D D H H | Y Z D D H H | Y Z D D H H |
| Y Z E E H H | Y Z E E H H | Y Z E E H H | Y Z E E H H | Y Z E E H H |
| \#15: | \#18: | \#21: | \#24: | \#27: |
| A A C C b B | A A C C b B | A A C C b b | A A C C b b | A A C C b B |
| R R 1 W | Y R R 1 W X | Y R R 1 W | Y R R 12 L | $\mathrm{Y} \quad 1$ |
| R R 2 W X | Y R R 2 W X | Y R R 2 W | Y R R H H W | Y R R H H W |
| Y Z D D H H | Z D D H H | Z D D H H X | Z D D H H X | Z R R H H X |
| Y Z E E H H | Z E E H H | Z E E H H X | Z E E X | Z D D E E X |
| \#30: | \#33: | \#36: | \#37: |  |
| A A C C B B | A A C C B B | A A C C B B | A A C C B B |  |
| Y 12 H H W | Y 12 H H W | Z Y 2 H H W | Z Y 2 H H W |  |
| Y R R H H W | $\mathrm{Y} \quad \mathrm{H} \mathrm{H}$ W | Z Y 1 H H W | Z Y 1 H H W |  |
| Z R R X | Z R R E E X | R R E E X | R R E E X |  |
| Z D D E E X | Z R R D D X | R R D D X | R R D D X |  |

## Hoover Solution

Here is every 3 rd step of a 42 rectilinear moves ( 44 straight-line moves, 56 unit moves) solution:

| \# 0 : | \#3: | \#6: | \# 9 : | \#12: |
| :---: | :---: | :---: | :---: | :---: |
| $\mathrm{R} R \mathrm{~A}$ A W X | R R A A W X | R R A A W X | A A B B W X | A A B B W X |
| R R B B W X | R R B B W X | R R B B W X | $\mathrm{R} R \quad \mathrm{R}$ X | R R C C W X |
| C C 12 | C C 1 2 L H H | C C H H | R R C C H H | R R 2 H H |
| Y Z D D H H | $\mathrm{Y} \mathrm{Z} \quad \mathrm{H}$ H | Y $\quad \mathrm{Z}$ | Y Z $\quad 12 \mathrm{H}$ H H | Y Z 1 1 H H |
| Y Z E E H H | Y Z D D E E | Y Z D D E E | Y Z D D E E | Y Z D D E E |
| \#15: | \#18: | \#21: | \#24: | \#27: |
| A A B B W | A A 2 B B W | A A 2 B B | A A B B | A A B B C C |
| $\begin{array}{llllll}\mathrm{R} & \mathrm{R} & \mathrm{C} & \mathrm{C} & \mathrm{W}\end{array}$ | R R 11 C C C | R R 11 C C | $\begin{array}{lllllll}\mathrm{R} & \mathrm{R} & 2 & 1 & \mathrm{C} & \mathrm{C}\end{array}$ | $\begin{array}{llllll}\mathrm{R} & \mathrm{R} & 2 & 1 & \mathrm{~W}\end{array}$ |
| R R 2 H H X | R R H H X | R R H H X W | R R H H X W | R R H H X W |
| Y Z 1 H H X | Y Z H H X | Y Z H H X W | Y Z H H X W | Y Z H H X |
| $Y \mathrm{Z}$ D D E E | Y Z D D E E | Y Z D D E E | Y Z D D E E | $Y \mathrm{Z}$ D D E E |
| \#30: | \#33: | \#36: | \#39: | \#42: |
| A A B B B $\quad$ C $\quad$ C | A A B B C C | A A B B C C | A A B B C C | A A B B $\quad$ C C |
| $\begin{array}{llllll}\mathrm{R} & \mathrm{R} & 2 & 1 & \mathrm{X} & \mathrm{W}\end{array}$ | R R $1 . \mathrm{X}$ W | Y R R $1 . \mathrm{X}$ W | $Y \quad \mathrm{R} R \mathrm{X}$ W | Z Y R R X W |
| R R H H X W | R R 2 X W | Y R R 2 X W | $\mathrm{Y} \quad \mathrm{R}$ R X W | Z Y R R X W |
| Y Z H H E E | Y Z H H E E | Z H H E E | Z H H H 11 E E | $\mathrm{H} \mathrm{H} \quad 1 \mathrm{E}$ E |
| $Y \mathrm{Z}$ D D | Y Z H H D D | Z H H D D | Z H H 2 D D | H H 22 D |

