

$$6) M[0] = 0$$

$$M[1] = 908$$

$$M[2] = 770$$

$$M[3] = 1652$$

$$M[4] = 1792$$

$$M[5] = 2353$$

$$M[6] = 2617$$

$$M[7] = 2661$$

$$M[8] = 3541$$

$$M[9] = 3966$$

$$M[10] = 4029$$

$$M[11] = 5499$$

$$M[12] = 6229$$

$$M[13] = 6580$$

$$M[14] = 7789$$

$$M[15] = 8385$$

$$M[16] = 8094$$

$$M[17] = 9580$$

$$M[18] = 10505$$

$$M[19] = 10029$$

$$M[20] = 10339$$

Minimum cost: $M[20] = 10339$

Gas station stops: $\{4, 7, 10, 12, 16, 19, 20\}$

2.1 Understand

1) Fibonacci(20)

Let $F[0..n]$ be a list of length $n+1$

$F[0] = 0$

$F[1] = 1$

For $i = 2$ to 20

$F[i] = F[i-1] + F[i-2]$

EndFor

Return $F[20]$

$F[20] = 65607$