

# Assignment4 17343105 田皓

Operator	Number of Occurrences	Operand	Number of Occurrences
lf	1	month	4
<	1	year	6
=	2	day	1
-	1	3	1
+	7	12	1
*	2	7	1
/	4	1	2
%	1	26	1
return	1	10	1
dayray	1	4	1
int	1	6	1
		100	1
n1 = 11	N1 = 22	400	1
		n2 = 13	N2 = 22

1. Program vocabulary:  $n = n_1 + n_2 = 24$
2. Program length:  $N = N_1 + N_2 = 44$
3. Calculated program length:  $N^{\wedge} = n_1 \log_2 n_1 + n_2 \log_2 n_2 = 86.16$
4. Program volume:  $V = N \log_2(n) = 201.74$
5. Program level:  $L^{\wedge} = (2/n_1) * (n_2/N_2) = 0.18$
6. Program difficulty  $D = 1/L^{\wedge} = 9.38$
7. Program Effort:  $E = V * D = 1877.68$
8. Language level:  $L^l = L^{*L} * V = 2.33$
9. Program Time(hours):  $T^{\wedge} = E/(S * f) = 0.029$
10. 平均语句大小  $N/\text{语句数} = 11$
11. 程序中的错误数预测值  $B = V/3000 = N \log_2(n)/3000 = 0.067$