Binary Search Analysis

N	=	100	100	100	100	100	
nEquals	=	7	5	5	6	6	
nAdd	=	12	5	5	10	9	
nLog	=	13	6	6	11	10	
nSubtracti(	=	8	9	9	7	8	
nDivision	=	7	5	5	6	6	
Total	=	47	30	30	40	39	37.2
N	=	200	200	200	200	200	
nEquals	=	8	7	5	8	7	
nAdd	=	11	12	8	14	8	
nLog	=	12	13	9	15	9	
nSubtracti(	=	12	8	6	9	12	
nDivision	=	8	7	5	8	7	
Total	=	51	47	33	54	43	45.6
N	=	400	400	400	400	400	
nEquals	=	8	7	7	6	9	
nAdd	=	13	9	10	10	14	
nLog	=	14	10	11	11	15	
nSubtracti(	=	10	11	10	7	12	
nDivision	=	8	7	7	6	9	
Total	=	53	44	45	40	59	48.2

N	Operations
100	37.2
200	45.6
400	48.2

Binary Search Analysis

Operations ••••• Log. (Operations)

$y = 7.9348\ln(x) + 38.167$
$R^2 = 0.9152$

Number of Operations

Size of Array