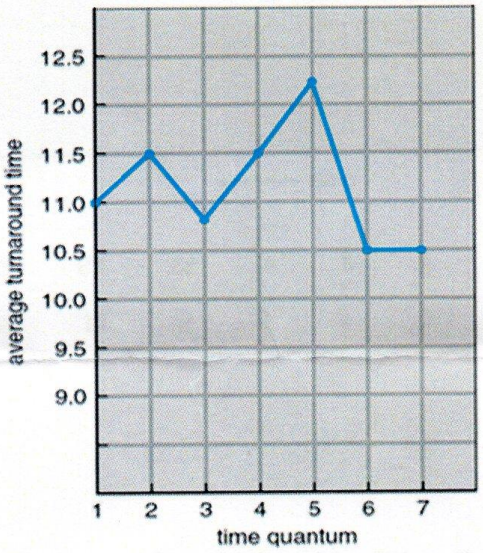
Homework for Chapter 5 Due date: Nov. 03 (Friday), 2017

5.1 Write a program in any language (programming) to produce the curve in the following figure with input parameters:
(1) Process vs. Time (table) and (2) Time Quantum=1,2,3,4,5,6,7
P_1=6, P_2=3,P_3= 1, P_4=7

Turnaround Time Varies With The Time Quantum

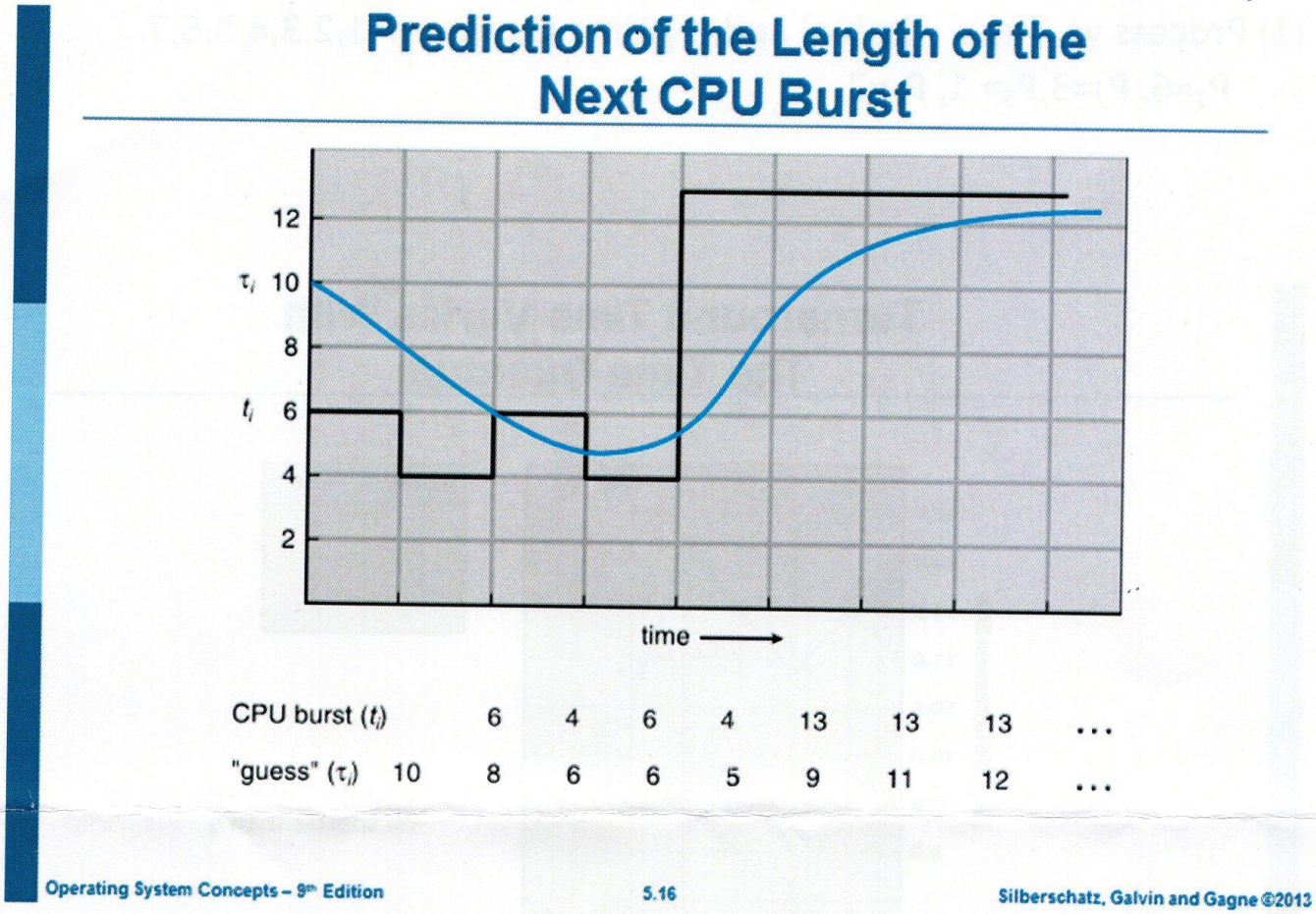


process	time
P_1	6
P_2	3
P_3	1
P_4	7

80% of CPU bursts should be shorter than q

5.2 Write a program to generate the curve that generalizes the curve in problem 5.1 with parameters, (1) Process vs. time
$P_i = T_i$, i=1, 2, 3 …, n
(2) Time Quantum
Time Quantum = 1, 2, 3,…, m
Show the curve when n and m are fixed/decided

5.3 Write a program to generate the curve in blue/green color to predict the length of the next CPU burst in the following figure:



5.4 Generalize the problem 5.3 with CPU burst (t_i) and "guess"(τ_i) as the input parameters to produce the curve