**CS332s18**

**Homework 05**

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Calculate the **total page faults** using the **CLOCK** algorithm and a **window size = 3**

Given the following **reference string** :

**1 2 1 3 4 5 3 2 4 5 6 4 3 2 3 4 5 2 6 5**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 11 | 11 | >11 | 41 | 41 | 41 | >40 | >4**1** | >41 | 61 | 61 | >61 | 21 | 21 | 21 | 20 | 2**1** | >21 | >21 |
| > | 21 | 21 | 21 | >20 | 51 | 51 | 50 | 50 | 5**1** | >50 | 41 | 41 | >40 | >40 | >4**1** | 51 | 51 | 51 | 51 |
|  | > |  | 31 | 30 | >30 | >3**1** | 21 | 21 | 21 | 20 | >20 | 31 | 30 | 3**1** | 31 | >30 | >30 | 61 | 61 |
| F | F |  | F | F | F |  | F |  |  | F | F | F | F |  |  | F |  | F |  |

Fill in chart. Include the **use bit** (required for last set of frames only)

Total page faults **CLOCK** algorithm\_\_\_\_\_\_\_\_12\_\_\_\_\_\_\_\_\_\_

The process running has at least \_\_\_6\_\_ pages in the program.

**20 points**