سوال 1)

|  |
| --- |
| 1 Mb |

|  |  |  |  |
| --- | --- | --- | --- |
| 512kb | 256kb | 128kb | 128kb |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 512kb | 256kb | 64kb | 64kb | 128kb |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 512kb | 128kb | 128kb | 64kb | 64kb | 128kb |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 512kb | 128kb | 128kb | 64kb | 64kb | 128kb |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 512kb | 128kb | 128kb | 64kb | 64kb | 128kb |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 512kb | 128kb | 128kb | 64kb | 64kb | 128kb |

|  |  |  |  |
| --- | --- | --- | --- |
| 512kb | 128kb | 128kb | 256kb |

|  |
| --- |
| 1 Mb |

سوال 2) اگر هر کدام از این صفحه ها توسط یک مدخل صفحه 4 بایتی نگاشته شوند، جدول صفحه‌ای با 220 مدخل به وجود ‌می‌آید که نیازمند 4 مگابایت است. که این جدول صفجه عظیم خودش حجم بسیار زیادی را می‌گیرد. که این اتفاق عملا مانع این عمل می‌شود.

سوال 3)

الف) بخش یک مگابایتی قبل از آن

ب) هفت مگابایت

ج) در حالت بهترین برازش در فضای سه مگابایتی سمت راست حافظه قرار می‌گیرد. در حالت در پی برازش در فضای 5 مگابایتی بعد از X قرار می‌گیرد. در حالت اولین برازش در فضای 4 مگابایتی سمت چپ حافظه قرار می‌گیرد.

سوال 4)

سیاست بهینه: تعداد کل خطاها: 7 miss rate:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 3 | 0 | 3 | 2 | 4 | 0 | 3 | 0 | 2 | 1 | 0 | 7 |
| |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 4 | | 3 | | |  | | --- | | 2 | | 4 | | 3 | | |  | | --- | | 2 | | 4 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | |  | | |  | | --- | | 7 | |  | |  | |

سیاست ساعت: تعداد کل خطاها: 7 miss rate:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 3 | 0 | 3 | 2 | 4 | 0 | 3 | 0 | 2 | 1 | 0 | 7 |
| |  | | --- | | 0 | | 2 | | 3 | | |  | | --- | | 0 | | 2 | | 3 | | |  | | --- | | 0 | | 2 | | 3 | | |  | | --- | | 4 | | 2 | | 3 | | |  | | --- | | 4 | | 2 | | 3 | | |  | | --- | | 4 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | |  | | |  | | --- | | 7 | |  | |  | |

سیاست حداقل استفاده در گذشتۀ نزدیک: تعداد کل خطاها: 9 miss rate:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 3 | 0 | 3 | 2 | 4 | 0 | 3 | 0 | 2 | 1 | 0 | 7 |
| |  | | --- | | 0 | | 3 | | 2 | | |  | | --- | | 0 | | 3 | | 2 | | |  | | --- | | 0 | | 3 | | 2 | | |  | | --- | | 4 | | 3 | | 2 | | |  | | --- | | 4 | | 0 | | 2 | | |  | | --- | | 4 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 3 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | |  | | |  | | --- | | 7 | |  | |  | |

سیاست به ترتیب ورود: تعداد کل خطاها: 7 miss rate:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 3 | 0 | 3 | 2 | 4 | 0 | 3 | 0 | 2 | 1 | 0 | 7 |
| |  | | --- | | 3 | | 2 | | 0 | | |  | | --- | | 3 | | 2 | | 0 | | |  | | --- | | 3 | | 2 | | 0 | | |  | | --- | | 3 | | 2 | | 0 | | |  | | --- | | 4 | | 2 | | 0 | | |  | | --- | | 4 | | 3 | | 0 | | |  | | --- | | 2 | | 3 | | 0 | | |  | | --- | | 2 | | 3 | | 1 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 2 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | | 1 | | |  | | --- | | 7 | | 0 | |  | | |  | | --- | | 7 | |  | |  | |

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