

Date: 2017/06/01

Student ID:

Name:

Ans -

Given the code written in C, where elements within the same row are stored contiguously, references to which variables exhibits temporal locality? Why?

```
for (j = 0; j < 8; j++)
```

```
for (i = 0; i < 8000; i++)
```

```
A[i][j] = B[j][0] + A[j][i];
```

```
for (j = 0; j < 8; j++)
```

```
for (i = 0; i < 8000; i++)
```

```
A[i][j] = B[j][0] + A[j][i];
```

Spatial      temporal      Spatial