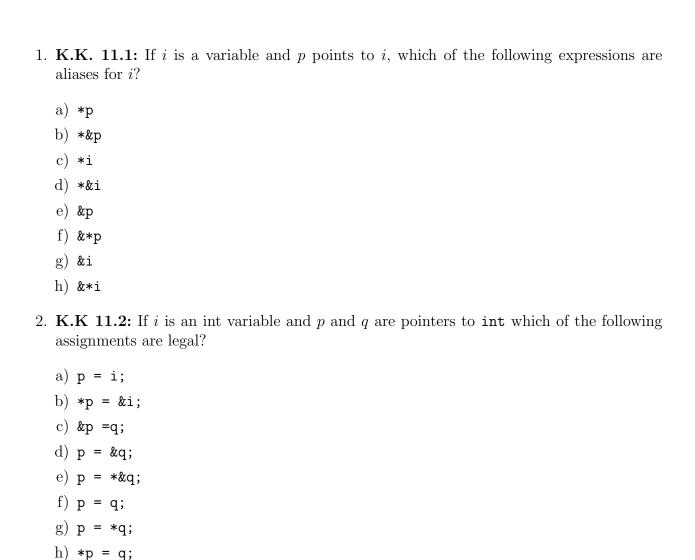
CSC 209 Review 4

August 19, 2020



3. **K.K.11.3:** The following function supposedly computes the sum and average of the numbers in the array a, which has length n. avg and sum point to variables that the function should modify. Unfortunately, the function contains several errors; find and correct them

i) *p = *q;

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```
void avg_sum(double a[], int n, double *avg, double *sum)
{
    int i;

sum = 0.0;
for (i = 0; i < n; i++)
    sum += a[i];
avg = sum / n;
}</pre>
```

4. **K.K.11.4:** Write the following function

```
void swap(int *p, int *q);
```

When passed the addresses of two variables, swap should exchange the values of the variables:

```
swap(&i, &j); /* Exchanges values of i and j */
```

5. **K.K.11.5:** Write the following function

```
void split_time(long total_sec, int *hr, int *min, int *sec);
```

total_sec is a time represented as the number of seconds since midnight. hr, min and sec are pointers to variables in which the function will store the equivalent time in hours (0-23), minutes (0-59) and seconds (0-59), respectively.