	UNIVERSITY	OF
	UNIVERSITY CALGAR	Υ

Name:	UCID:

Worksheet 0x10

Suppose that loading an integer, adding two integers, and comparing two integers each take 1 clock cycle of work. For each of the following code snippets, estimate the clock cycles required to complete the computation. Assume that no optimizations are enabled on the compiler.

```
1. Snippet 1:
  if (a+b < c)
  {
           d = e+f;
  }
  else
  {
           g = h+i;
  }
2. Snippet 2:
  if (a+b < c)
  {
           d = e+f;
  }
  else
  {
           g = a+e; // notice this line
  }
3. Snippet 3:
  a = 50;
  c = 100;
  for (int b = 0; b < c; b++) // notice the loop
           if (a+b < c)
           {
                   d += e[b]+f[b];
           }
           else
           {
                   g += h[b]+i[b];
           }
  }
```