```
void encrypt (uint32_t* v, uint32_t* k)
{
        uint32_t v0=v[0], v1=v[1], sum=0, i;    /* set up */
        uint32_t delta=0x9e3779b9;              /* a key schedule constant */
        uint32_t k0=k[0], k1=k[1], k2=k[2], k3=k[3]; /* cache key */
        for (i=0; i < 32; i++) { /* basic cycle start */
                sum += delta;
                v0 += ((v1<<4) + k0) ^ (v1 + sum) ^ ((v1>>5) + k1);
                v1 += ((v0<<4) + k2) ^ (v0 + sum) ^ ((v0>>5) + k3);
        } /* end cycle */
        v[0]=v0;
        v[1]=v1;
}
```