

```
class Rocket { // copied from rockfile
```

```
};
```

```
void getrocket(float& ms, float& vt, ..... );
```

---

```
int main( )
```

```
{
```

```
    float time, vel, ht,
```

```
    float tmax ;
```

```
    int npoints ;
```

```
    cout << "enter elapsed time from liftoff\n";
```

```
    cin >> tmax ;
```

```
    cout << "time entered is " << tmax << "secs\n";
```

```
    cout << "enter number of points\n";
```

```
    cin >> npoints ;
```

```
    cout << "number of points : " << npoints << endl;
```

```
    cout << "time(s) velocity(m/s) height\n";
```

```
    float delt = tmax / (npoints - 1);
```

```
    for (int i = 0; i < npoints; i++) {
```

```
        time = i * delt;
```

```
        myRocket.findvelht (time, vel, ht);
```

```
        cout << time << vel << ht << endl;
```

```
    }
```

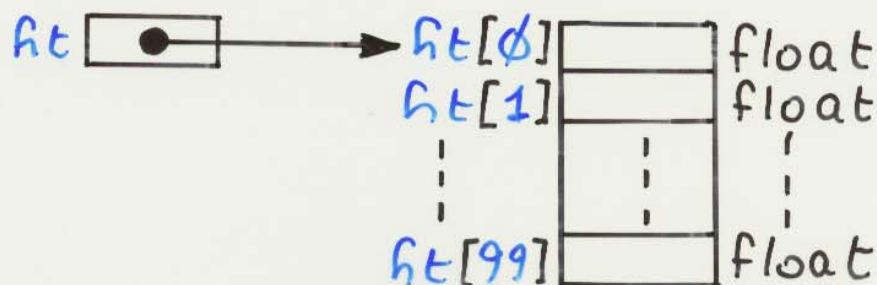
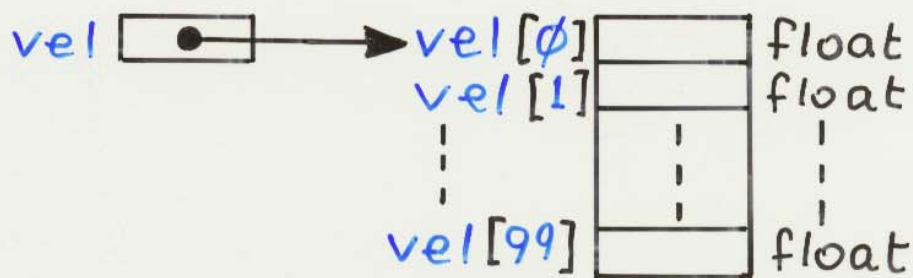
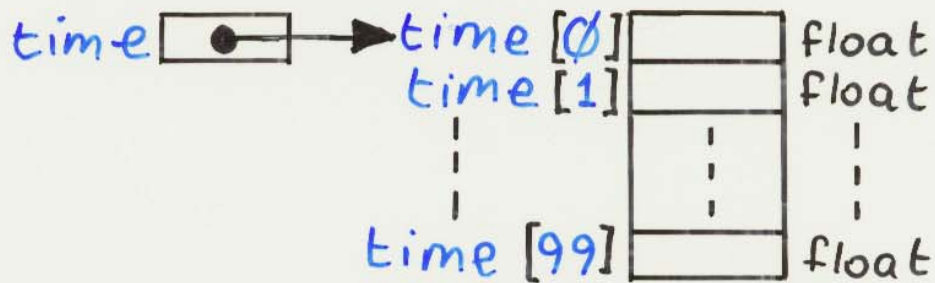
```
    return 0 ;
```

```
}
```

```
int const SIZE = 100;
```

```
SIZE [ 100 ] int
```

```
float time[SIZE], vel[SIZE] ht[SIZE];
```



```
class Rocket { // copied from rockfile
```

```
};
```

```
void getrocket(float& ms, float& vt, ..... );
```

```
int const SIZE = 100;
```

---

```
int main( )
```

```
{
```

```
float time[SIZE], vel[SIZE] ht[SIZE];
```

```
float tmax ;
```

```
int npoints ;
```

```
cout << "enter elapsed time from liftoff\n";
```

```
cin >> tmax ;
```

```
cout << "time entered is " << tmax << "secs\n";
```

```
cout << "enter number of points\n";
```

```
cin >> npoints ;
```

```
while ((npoints < 2) or (npoints > SIZE)) {
```

```
    cout << "MUST be in [2, " << SIZE << "]\n";
```

```
    cout << "enter number of points again\n";
```

```
    cin >> npoints ;
```

```
}
```

```
cout << "number of points: " << npoints << endl;
```

```
return 0 ;
```

```
}
```

```
class Rocket { // copied from rockfile
```

```
};
```

```
void getrocket(float& ms, float& vt, ..... );
```

```
int const SIZE = 100;
```

---

```
int main( )
```

```
{
```

```
float time[SIZE], vel[SIZE] ht[SIZE];
```

```
float tmax ;
```

```
int npoints ;
```

```
cout << "enter elapsed time from liftoff\n";
```

```
cin >> tmax ;
```

```
cout << "time entered is " << tmax << "secs\n";
```

```
cout << "enter number of points\n";
```

```
cin >> npoints ;
```

```
cout << "number of points : " << npoints << endl;
```

```
float delt = tmax / (npoints - 1);
```

```
for( int i = 0; i < npoints; i++ ) {
```

```
    time[i] = i * delt ;
```

```
    myRocket.findvelht( time[i], vel[i], ht[i]);
```

```
}
```

```
cout << "time(s) velocity(m/s) height(m)\n";
```

```
for( int i = 0; i < npoints; i++ )
```

```
    cout << time[i] << vel[i] << ht[i] << endl;
```

```
return 0 ;
```

```
}
```