

Program Code

```
TimedDist* raceTimes = NULL;
int numTimes = 3; // Initial array size
TimedDist newTime;
int newTimePos = 2;
int i = 0;

// Allocate array for numTimes TimedDist elements
raceTimes = (TimedDist *)malloc(sizeof(TimedDist) * numTimes);
if (raceTimes == NULL) {
    printf("Unable to allocate memory\n");
    return EXIT_FAILURE;
}

InitializeTimedDist(raceTimes, numTimes);
```

Address	Contents	Variable Name
100	None 5436	raceTimes
104		numTimes
105		
106		newTime
107		
108	2	newTimePos
109	0	i
110		
111		
112		
113		
114		
115		
116		
117		
118		
119		
120		
121		
122		
123		
124		
125		

Address	Contents	Variable Name
5436 →	0	
	0.0	[0]
	0.0	
	0	
	0.0	[1]
	0.0	
	0	
	0.0	[2]
	0.0	

dynamically allocated array