Pointers and Arrays – Exercise

names	v	ptr	Dabs.	Dtyp.	arr[0]	arr[1]	arr[2]	arr[3]
address	031FE8	031FE4	??????	??????	031FEC	031FF0	031FF4	031FF8
initalized value	0	000000	000000	000000	10	11	12	13
ptr = arr;	0	031FEC	000000	000000	10	11	12	13
ptr = &arr[1];	0	031FF0	000004	000001	10	11	12	13
v = *ptr;	11	031FF0	000004	000001	10	11	12	13
v = *ptr++;	11	031FF4	000008	000002	10	11	12	13
v = *ptr--;	12	031FF0	000004	000001	10	11	12	13
*--ptr = v++;	13	031FEC	000000	000000	12	11	12	13
*++ptr = v--;	12	031FF0	000004	000001	12	13	12	13
v = (*ptr)++;	13	031FF0	000004	000001	12	14	12	13
*ptr = (*ptr)+8;	13	031FF0	000004	000001	12	22	12	13
v = ++(*ptr);	23	031FF0	000004	000001	12	23	12	13
*(ptr+2)=*ptr+9;	23	031FF0	000004	000001	12	23	12	32

step 1

step 2

step 3

…

`Dabs.` Distance to begin of arr in absolute addresses (byte counting)

`Dtyp.` Distance to begin of arr in typed addresses (long word counting)