Lowers/uppers bound L=0 4, 7, 11, 11, 13 conted array - 1, 2, 2, R=n [2,9] + 6-1=4 while (L<R) V=2 (ower-bound (arte, 2) -> 1 apper-bound (arte, 9) -> 5  $M = L + \left(\frac{R - L}{2}\right)$ if (ann[M] > v)
R = M ub-16=0 ⇒ ub=16 else 1=M+1 annimiky -> L=M+1 neturn L SADE Q+B= &ABO A ABC B AABC = D+1 DEIIBC L=O, R=AC AD = (AB) ×AE △ADE:□BDEC = D

L=D R=ACwhile (fabs(L-R))1e-8 M=(L+R)/2.0if (getRatio(M...))D R=M

$$\frac{a}{a} = \frac{a}{AD}$$

$$\Rightarrow \frac{a}{a} + \frac{b}{a} = \frac{AB}{AD}$$

$$\Rightarrow 1 + \frac{b}{a} = \frac{AB}{AD}$$

$$\frac{b}{a} = \frac{AC}{AE} - 1$$

$$\frac{b}{a} = \frac{b}{a}$$

$$\frac{b}{a} = \frac{b}{a}$$

$$\frac{b}{a} = \frac{b}{a}$$

$$\frac{b}{a} = \frac{b}{a}$$

JUN REM