

# Asymptotic Analysis

Achieve the given score in  $T + o(T)$  turns.

When a pile empties, refill it.

You have one opponent, but they cannot play or buy cards. (Even if Possessed.)

Luck is on your side. (So is your opponent.)





Include kingdom piles based on properties of the top card.

Exclude colonies/platina/shelters. Include ruins/potions/heirlooms as needed.

Consider all cards printed prior to 2018.

Numbers with decimal points are rounded.

You might find <https://walledvillage.github.io/> helpful.

• Cards with  in cost	$11.08T$	<b>G</b>	$1.794^T$	<b>R</b>
• Artisan, Bank, Cellar, Cobbler,	$11.16T$	<b>T</b>	$1.866^T$	<b>S</b>
Counting House, Gardens, Ill-Gotten Gains,	$12T$	<b>E</b>	$2^T$	<b>U</b>
Masterpiece, Page, Vampire	$0.08T^2$	<b>A</b>	$2.085^T$	<b>E</b>
• Cards costing $\geq$ 	$0.32T^2$	<b>I</b>	$2.087^T$	<b>C</b>
• Reactions	$0.33T^2$	<b>E</b>	$2.094^T$	<b>C</b>
• Cards and events with  in cost	$0.68T^2$	<b>H</b>	$2.618^T$	<b>R</b>
• Cards costing $\leq$  other than Travelers and Black Market	$0.06T^3$	<b>M</b>	$5^T$	<b>L</b>
• Hamlet, Watchtower	$\Theta(T^{18})$	<b>D</b>	$9.341^T$	<b>O</b>
• Inheritance, Procession, Scrying Pool,	$\Theta(T^{19})$	<b>O</b>	$130.8^T$	<b>S</b>
Stonemason, Worker's Village	$1.135^T$	<b>K</b>	$191.1^T$	<b>L</b>
• Treasures	$1.235^T$	<b>C</b>	$201.9^T$	<b>D</b>
• Events	$1.280^T$	<b>N</b>	$2^{2^T}$	<b>N</b>
• Travelers	$1.341^T$	<b>O</b>	$2 \uparrow \uparrow \frac{T}{2}$	<b>L</b>
• Durations	$1.342^T$	<b>C</b>	$\infty$	<b>A</b>
• Reserves	$1.361^T$	<b>O</b>		