

MATH MINGLE: WEEK 4

Determine the value of

$$\sqrt{1 + F_2 \sqrt{1 + F_4 \sqrt{1 + F_6 \sqrt{\dots \sqrt{1 + F_{2n} \sqrt{\dots}}}}}}$$

where F_n is the n^{th} Fibonacci number: $F_0 = 0$, $F_1 = 1$, and $F_n = F_{n-1} + F_{n-2}$.

Twisting Passages All Alike

YASQUMWWLFCMOFNIRLLJKTPGFJVGED
SCEMTZZQWLVZYLFBMTWYGHJAWPFGMLL
PFOTRITQAQCVPBHUNCMSIAVIYMNEZA
AOFFIWCNOTQKJSSFHUZTEAPMYCADB
LTQGZADNDRDWIOHCHMJDMDDHMTUKWUC
WVIQCHQFVTYZQGNYIVLSAYWILRDWPH
AOVTFCWFZQDZHJKGSKRMKQJTDYAE
YLGTGMSIJYIOBHLUPFGIRQACLDDJC
SHPBCKVOUFZTOAVVJIRZNZHGPICLLK
OHTFJVCYRIOLWWITGBMGELOKCWTEIG
PYNKEWGGVZOTKMOTGZKSFOFTAHRTLB
TCAONEMTLITBCENUYTTJNZYSTZBMTN
UUPOJDSVYFFRGHWTDVOWFCVEVQEWD
RRSBGCFAZFEWLMEXPQUMWYJCUBGSU
NEWWFDAVDZPJEMUQHTHZVUWUFZPGFL
LKMIISMIEQIEAMHTEQYLPUGMPPLLSD
OECBNKTBTZSCTSPCPTSNGJINVYAIEE
RSYDUMNPNIOKJABMQUIECPMPMLPVS
IWKBHFTOVHYLOSUPJLGFOKHAYWRKNA
GWLLEMRYCNGAAEJULSERZNEHYCFPNC
HOPPBUCTTEHAEIWLEJHICHBHOZJTPS
TTMDJOZMISRQTWZQLDBTLDNBKPNKD
SYWGCHUBUDUMUOJTGUYHPJLQYVHLRR
OLQMRTUNUPRQDMGNHMJFUZPGPNDWZU
POHHBABWNWNGNQTTFBHOGCNVIDJLBJ

